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100/300 AREA UNIT MANAGERS MEETING APPROVAL OF MINUTES August 9, 2007



EDMC

APPROVAL:	Stacy Charboneau, DOE/RL (A3-04)	_ Date	9/13/07
APPROVAL:	River Corridor Project Manager Briant Charboneau, DOE/RL (A6-33) Groundwater Project Manager	_ Date	9/13/07
APPROVAL:	John Price, Ecology (H0-57) Environmental Restoration Manager	_ Date	9/13/2007
APPROVAL:	Larry Gadbois, Rod Lobos, or Dennis Faulk, EPA (B1-46) 100 Aggregate Area Unit Manager	_ Date	9-13-07
APPROVAL:	Alicia Boyd, EPA (B1-46) 300 Aggregate Area Unit Manager	_ Date	9-13-07

100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION August 9, 2007

NAME	E-MAIL ADDRESS	MSIN	СОМР	SIGNATURE
ecok Sylvia	Original +1 copy	H6-08	ADREC	N/A
Charboneau, Briant L	Briant_L_Charboneau@rl.gov	A6-33	DOE	
Charboneau, Stacy	Stacy_L_Charboneau@rl.gov	A3-04	DOE	
Clark, Clifford E	Clifford_E_Cliff_Clark@rl.gov	A5-15	DOE	96.
Guercia, Rudolph F	Rudolph_F_Rudy_Guercia@rl.gov	A3-04	DOE	
Hanson, James P	James_P_ Hanson@rl.gov	A5-13	DOE	
Hildebrand, R Doug	R_D_Doug_Hildebrand@rl.gov	A6-38	DOE	
Johnson, Vernon G	Vernon_G_Johnson@rl.gov	N/A	DOE	
Morse, John G	John_G_Morse@rl.gov	A6-11	DOE	h~
Robertson, Owen	Owen_Jr_Robertson@rl.gov	A3-04	DOE	
Sands, John P	John_P_Sands@rl.gov	A3-04	DOE	Sta
Smith, Chris	Douglas_C_Chris_Smith@rl.gov	A3-04	DOE	911/10
Thompson, Mike	K_M_Mike_Thompson@rl.gov	A6-38	DOE	000
Tortoso, Arlene C	Arlene_C_Tortoso@rl.gov	A6-38	DOE	
Zeisloft, Jamie	Jamie_Zeisloft@rl.gov	A3-04	DOE	
Ayres, Jeffrey M	JAYR461@ECY.WA.GOV	H0-57	ECO	
Bond, Fredrick W	FBON461@ECY.WA.GOV	H0-57	ECO	Fresh & Sun
Goswami, Dib	DGOS461@ECY.WA.GOV	H0-57	ECO	
Huckaby, Alisa D	AHUC461@ECY.WA.GOV	H0-57	ECO	
Jones, Mandy	MJON461@ECY.WA.GOV	H0-57	ECO	
Price, John	JPRI461@ECY.WA.GOV	H0-57	ECO	$\mathbb{R}^{\mathcal{S}\mathcal{V}}$
Rochette, Elizabeth	BROC461@ECY.WA.GOV	H0-57	ECO	U
Shea, Jacqueline	JASH461@ECY.WA.GOV	H0-57	ECO	Pay el
Smith-Jackson, Noe'l	NSMI461@ECY.WA.GOV	H0-57	ECO	May truth act
Vanni, Jean	Jvan461@ECY.WA.GOV	H0-57	ECO	JAN P
Whalen, Cheryl	CWHA461@ECY.WA.GOV	H0-57	ECO	
Boyd, Alicia	BOYD.ALICIA@EPA.GOV	B1-46	EPA	Alb
Einan, Dave	EINAN.DAVID@EPA.GOV	B1-46	EPA	
Faulk, Dennis A	FAULK.DENNIS@EPA.GOV	B1-46	EPA	
Gadbois, Larry E	GADBOIS.LARRY@EPA.GOV	B1-46	EPA	LEdy
Lobos, Rod	LOBOS.ROD@EPA.GOV	B1-46	EPA	11/1/1

Page 1 of 3

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater, Source Operable Units, Facility (D4 and ISS), and End State and Final Closure

August 9, 2007

Washington Closure Hanford (WCH) Building, 2620 Fermi Drive, Richland, Washington

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) The next meeting will be held September 13, 2007 at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, room C209.
- Attendees/Delegations Attachment A is the list of attendees. Representatives from each agency
 were present to conduct the business of the Unit Managers Meeting. Attachment B documents any
 delegations received from the agencies.
- Approval of Minutes The July 12, 2007 meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status Status of action items was performed, and updates provided (Attachment C).
- Agenda: Attachment D is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

This session was not held.

100/300 AREA GROUNDWATER

Attachment 1 provides a status or information. No issues were identified.

Action: RL shall set-up a meeting with EPA and Ecology regarding aquifer tube installation across the entire site.

<u>Agreement 1</u>: Attachment 2 (Change Number TPA-CN-169) documents RL, EPA, and Ecology's approval of changes to the "Interim Action Waste Management Plan for the 100-HR-3 and 100-KR-4 Operable Units," DOE/RL-97-01, Rev. 5.

Agreement 2: Attachment 3 documents RL and Ecology's concurrence to proceed with drilling four new chromium source investigation wells in the 100-D Area.

Agreement 3: Attachment 4 (Change Number TPA-CN-17) documents RL and Ecology's approval to add an option of using a second injection well 199-D5-33 in the "Treatability Test Plan for Removal of Chromium from Groundwater at 100-D Area Using Electrocoagulation," DOE/RL-2006-70, Rev. 0.

<u>Agreement 4</u>: Attachment 5 documents RL and EPA's concurrence to changes to the "Sampling and Analysis Instructions for TCE Characterization, 300-FF-5 Operable Unit, Fiscal Year 2007," SGW-32607, Rev. 0, April 2007.

GROUNDWATER/SOURCE INTEGRATION

Attachment 6 provides a status or information on the five-year review issues and actions. The following updates were noted:

- Update to Issue 1, Item 1-3: Document was submitted to RL for review.
- Update to Issue 2, Item 2-2 and Item 2-3: Both items are part of the discussions in progress as part of the TPA negotiations.
- Update to Issue 3, Item 3-1: This action is in progress and is part of the overall 100-KR-4 pump and treat expansion.
- Update to Issue 5, Item 5-1 and Item 5.2: These actions are in progress, and are part of the overall 100-KR-4 pump and treat expansion.
- Update to Issue 6, Item 6-1: Treatability Test Report is under development, and the anticipated submittal date is early 2008.
- Update to Issue 7, Item 7-1: This action is in progress.
- Update to Issue 8, Item 8-1: This action is in progress.
- Update to Issue 9, Item 9-2: This action is dependent on completion of Item 9-1.
- Update to Issue 11, Item 11-1: The field test is postponed to 2008.
- Update to Issue 12, Item 12-1: This action is in progress.

No issues were identified, and no agreements were documented.

Action: RL shall provide Ecology with a copy of the direction letter sent to the operating contractor regarding the operation changes to the 182-D reservoir to further minimize leakage.

100/300 AREA FIELD REMEDIATION CLOSURE

Attachments 7 provide a status or information for various projects in the 100/300 Area Field Remediation (FR) Project. Attachment 7 covers sampling and design. Attachment 8 covers 100-F. Attachment 9 covers 118-K-1. No issues were identified, no actions were documented, and no agreements were documented.

<u>DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)/ INTERIM</u> SAFE STORAGE (ISS)

Attachment 10 provides a status or information for the 300 Area, while Attachment 11 provides a status or information for the 100 Area. No issues were identified, and no actions were documented.

Agreement: Attachment 12 documents Ecology's and EPA's approval for the movement of the MO-829 trailer from the 100-D Area to the 100-N Area for demolition, and its disposal to the Environmental Restoration Disposal Facility.

Attachment 13 provides a status or information. No issues were identified, no agreements were documented, and no actions were documented.

SPECIAL TOPICS

No issues were identified, no agreements were documented, and no actions were documented.

Attachment A

	CONTRACTOR		
Jane_V_Borghese@rl.gov	E6-35	FH	JV Bonhare
Russel_J_Fabre@rl.gov	E6-35	FH	
Ronald_L_Jackson@rl.gov	E6-35	FH	Ron Jah
Robert_E_Piippo@rl.gov	H8-12	FH	_
Scott_W_Petersen@rl.gov	E6-35	FH	
Julie_R_Robertson@rl.gov	E6-35	FH	
John_A_Winterhalder@rl.gov	E6-35	FH	of With
Evan.dresel@pnl.gov		PNNL	The state of the s
john.fruchter@pnl.gov	K6-96	PNNL	
mary.hartman@pnl.gov	K6-96	PNNL	
robert.peterson@pnl.gov	K6-75	PNNL	
scimon@oregontrail.net	* *************************************	Oregon	Sheller In:
sandral@nezperce.org		TRIBES	
Dale.Bignell@wch-rcc.com	H4-25	wch	DIBUN
mark.buckmaster@wch-rcc.com	X9-07	WCH	0
stacey.callison@wch-rcc.com	X9-07	WCH	
richard.carlson@wch-rcc.com	X4-08	WCH	
Nicholas.clapper@wch-rcc.com	X3-16	WCH.	
steven.clark@wch-rcc.com	H4-23	WCH	
franklin.corpuz@wch-rcc.com	L6-06	WCH	
john.darby@wch-rcc.com	L6-06	WCH	
fran.delozier@wch-rcc.com	H4-22	WCH	
steven.dieterle@wch-rcc.com	L1-04	WCH	
linda.dietz@wch-rcc.com	H4-22	WCH	
lorna.dittmer@wch-rcc.com	H4-23	WCH	Yorna habittmen
jack.donnelly@wch-rcc.com	H4-22	WCH	Clevery
jon.fancher@wch-rcc.com	X9-08	WCH	20 Jonly
kenneth.gano@wch-rcc.com	H4-21	WCH	
james.golden@wch-rcc.com	X4-08	wch	thi Slo
karl.hadley@wch-rcc.com	X0-18	WCH C	
charles.hedel@wch-rcc.com	H4-22	WCH	
larry.hulstrom@wch-rcc.com	H4-22	WCH	
Wayne.johnson@wch-rcc.com	H4-22	WCH	m/s-
kim.koegler@wch-rcc.com	L1-07	WCH	0
roger.landon@wch-rcc.com	H4-21	WCH	
jeffrey.lerch@wch-rcc.com	H4-22	WCH	
	Russel_J_Fabre@rl.gov Ronald_L_Jackson@rl.gov Robert_E_Piippo@rl.gov Scott_W_Petersen@rl.gov Julie_R_Robertson@rl.gov John_A_Winterhalder@rl.gov Evan.dresel@pnl.gov john.fruchter@pnl.gov mary.hartman@pnl.gov robert.peterson@pnl.gov scimon@oregontrail.net sandral@nezperce.org Dale.Bignell@wch-rcc.com mark.buckmaster@wch-rcc.com richard.carlson@wch-rcc.com Nicholas.clapper@wch-rcc.com steven.clark@wch-rcc.com franklin.corpuz@wch-rcc.com john.darby@wch-rcc.com steven.dieterle@wch-rcc.com linda.dietz@wch-rcc.com lorna.dittmer@wch-rcc.com jack.donnelly@wch-rcc.com jack.donnelly@wch-rcc.com kenneth.gano@wch-rcc.com kenneth.gano@wch-rcc.com charles.hedel@wch-rcc.com Wayne.johnson@wch-rcc.com wyne.johnson@wch-rcc.com roger.landon@wch-rcc.com	Russel_J_Fabre@rl.gov	Russel_J_Fabre@rl.gov

Ludowise, John D	john.ludowise@wch-rcc.com	X4-08	WCH	
Miller, Larry R (Rex)	rex.miller@wch-rcc.com	X4-08	WCH	1
Obenauer, Dale F	dale.obenauer@wch-rcc.com	X3-16	WCH	Wall Oldenown
Ovink, Roger W	roger.ovink@wch-rcc.com	H4-21	WCH	
Parnell, Scott E	scott.parnell@wch-rcc.com	L1-09	WCH	
Proctor, Megan	Megan.Proctor@wch-rcc.com	H4-21	WCH	Wegan Crocker
Queen, Jackie	Jackie.Dieterle@wch-rcc.com	H4-22	WCH	~ 10
Saueressig, Daniel G	Daniel.Saueressig@wch-rcc.com	X5-50	WCH	
Smet, Ann K (Annie)	annie.smet@wch-rcc.com	X4-08	wch	
Strom, Dean N	dean.strom@wch-rcc.com	X3-40	WCH	1) Whater
Thomson, Jill E	jill.thomson@wch-rcc.com	H4-22	WCH	Till Hurrison
Weiss, Stephen G	stephen.weiss@wch-rcc.com	H4-22	WCH	
Yasek, Donna M	donna.yasek@wch-rcc.com	L1-07	wch	Conna lagek
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W. 10				
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Attachment B

Donnelly, Jack W

From:

Bignell, Dale T

Sent:

Sunday, August 05, 2007 3:06 PM

To:

Donnelly, Jack W

Cc:

Feist, Ella T; Dittmer, Lorna M; Johnson, Wayne F

Subject: FW: Delegation of TPA Project Manager authority and responsibility

Jack -- FYI

From: Charboneau, Stacy L [mailto:Stacy_L_Charboneau@RL.gov]

Sent: Friday, August 03, 2007 1:09 PM

To: Faulk, Dennis A; Gadbois, Larry E; Rod Lobos/R10/USEPA/US; Cameron, Craig E; Huckaby, Alisa D; Price,

John; Shea, Jacqueline (ECY); Bond, Fredrick W

Cc: Franco, Joe R; Charboneau, Briant L; Hanson, James P; Morse, John G; Thompson, Mike; Fletcher, Thomas W; Sands, John P; Zeisloft, Jamie; Smith, Chris; Guercia, Rudolph F; Spencer, Charles G; Feist, Ella T; Dittmer,

Lorna M; Bignell, Dale T; Johnson, Wayne F

Subject: Delegation of TPA Project Manager authority and responsibility

TPA Action Plan Section 4.1 states that "The Project Manager may delegate their authority and responsibilities with notice to the other affected party(ies)."

I am hereby designating John Sands as my alternate for when I am not present at the 100/300 Unit Manager Meetings.

Stacy

Attachment C

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
x	100-003	RL	K. Bazzell	Field Remediation Closure	EPA and Ecology request DOE prepare a schedule for cleanup of the 200-CW-3 waste sites listed in the 100 Area Remaining Site Record of Decision.	Open: 7/13/06; Action: Closed 12/14/2006.
X	100-004	wc	L. Dittmer	Sample Design and Cleanup Verification	Present an errata sheet to provide consistent tritium cleanup levels between the 100 Area Burial Ground SAP and the 100 Area SAP.	
x	100-005	RL	K. Bazzell	General RCCC	EPA and Ecology request a meeting with the DOE person who can approve/disapprove language in the 100 Area Remedial Design Report. (Action associated with a proposed revision to the RDR to include descriptive language on ecorisk screening.)	Open: 7/13/06; Action: Closed 11/9/2006.
0	100-005B	EPA	J. Zeisloft	General RCCC	Revise the 100 Area RDR to include more specific language on the methodology and process for conducting ecological risk screening during closeout process.	Open: 9/14/06; Action: After several attempts to reach agreement, a workshop was scheduled with RL, EPA, and Ecology on August 21, 2007 to resolve.
х	100-006	RL	J. Zeisloft	100-K Field Remediation	RL to provide EPA and Ecology a copy of the NorthWind Characterization Report for 118- K-1.	Open: 7/13/06; Action: Completed 10/26/06
х	100-007	RL	J. Zeisloft	100-K Field Remediation	RL provide EPA and Ecology the status of the AMEC Report on 118-K-1.	Open: 7/13/06; Closed: 8/10/06 Action did not occur

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
x	100-008	RL	K. Bazzell	Field Remediation	Provide WCH direction to evaluate other, existing, options for handling bottles containing liquids that are unearthed during remedial actions. Evaluate what is being done at other sites (Brookhaven; Sandia; DOE Lessons Learned website); evaluate how HAZM	Open: 9/14/06; Action: Competed 10/2/06
X	100-009	RL	R. Guercia	100-K D4	Send a copy of a building completion report (a quarterly report prepared to satisfy the DOE Order to take a facility "off the books.") as an alternate format of retrievable documentation.	Open: 9/14/06; Action: Complete 9/15/06
х	300-002	PN	B. Peterson M. Hartman	300-FF-5 Groundwater	Invite Jacqui Shea (Ecology), Alica Huckaby (Ecology), Alicia Boyd (EPA) to the September 300 Area aquifer tube sampling event.	Open: 7/13/06; Action: Completed 9/5/06
×	100-110	ECY	J. Price	100-H	John Price (Ecology) will send Kent Westover (RL) an email after looking at the information on the 116-H-4 table provided at the 10/12/06 UMM.	Open: 10/12/06; Action: Completed 10/13/06
×	100-111	RL	K. Westover	RCC General	RL shall propose a process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution.	Open: 10/12/06; Action: Ecology and RL agreed to close item; action closed 2/8/07.
X	100-112	RL	B. Charboneau	100-HR-3	RL will respond to Ecology's email request on the data and analysis request regarding the 100-HR-3 system.	Open: 10/12/06; Action: Data was provided, & Ecology is reviewing. On 4/12/07 this action was closed and a new action item generated (see action item 100- 133).

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-113	ECY	J. Price	100-HR-3	John Price will respond to RL's request to submit an annual report for the ISRM system versus a quarterly report. However, monthly data will still be sent to Ecology.	Open: 10/12/06; Action: Ecology approval documented in minutes. Completed 11/9/2006.
X	100-114	RL	B. Charboneau	Unknown	RL will send Ecology the schedule for the EM-22 Treatability Test Report	Open: 10/12/06; Action: Schedule entered into minutes. Completed 11/9/2006.
×	100-115	RL	B. Charboneau	100-D	RL will send Ecology the plans/actions for the 182-D Reservoir.	Open: 10/12/06; actions documented in minutes. Completed 11/9/2006.
×	100-116	RL	J. Zeisloft	100-D	RL and Ecology shall talk about the liquid removal from the 100- D-56 pipe.	Open: 10/12/06; Action: Completed 11/9/2006
x	100-117	ECY	J. Price	100-N	Ecology shall review the revegetation proposal for the 116-N-1 site and provide feedback.	Open: 10/12/06; Action: Proposal approved in minutes. Completed 11/9/2006.
x	100-118	ECY	J. Price	100-D	Ecology shall review the 100-D- 56 chromium treatment plan	Open: 10/12/06; Action: Ecology submitted comments. Completed 11/9/2006.
х	300-003	RL	C. Smith	300-FF-2	RL shall provide EPA with the contamination control measures to move the MO-905 trailer within the onsite area.	Open: 10/12/06; Action: Completed 10/18/2006

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
×	100-119	RL	J. Morse	100-HR-3	RL (John Morse) will set up a meeting with Ecology (John Price) on overall long-term picture for 100-HR-3.	Open: 11/9/06; Action: RL is scheduling a meeting in March 2007. On 4/12/07 this action was closed and a new action item generated (see action item 100- 133).
x	100-120	RL	J. Morse	100-HR-3	RL (John Morse) will provide Ecology (Mandy Jones) with the 100-D well installation schedule, as well as the EM-22 Treatability Test well installation plans.	Open: 11/9/06; Action: RL to set up meeting
×	100-121	RL	J. Morse	100-FR-3	RL (John Morse) will provide EPA (Rod Lobos) with the Contaminates of Concern (COCs) plot for each well in 100- FR-3, including a list of wells sampled in October 2006 and those scheduled to be sampled in November 2006.	
x	100-122	RL	J. Zeistoft	100-D	RL (Jamie Zeisloft) will set up a meeting with Ecology on the holistic 100-D characterization approach.	Open: 11/9/06; Action: Meeting was held; action closed 2/8/07.
х	100-123	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will provide Ecology (Mandy Jones) with the overall 100-D project remediation schedule.	Open: 11/9/06; Action: Closed 12/14/2006
х	300-004	RL	C. Smith	618-10/11	RL (Chris Smith) will set up a meeting with EPA to discuss the M-16-67 milestone for 618-10/11 to ensure there are no issues with the design solution and completing the milestone.	Open: 11/9/06; Action: Closed 12/14/2006

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
x	100-124	RL	K. Westover	General RCC	for site closeout (proposed by	Open:12/14/06; Action: Item was closed 7/12/07.
, x	100-125	RL	K. Bazzell	General RCC	RL to meet with EPA and Ecology on what systems or processes are in place to track remedial action costs for waste site closeout. Remedial Action Closeout Reports will capture this information but EPA and Ecology want to hear an update since the development of the 300-FF-1 Remedial Action Report (DOE/RL-2004-74, Rev. 0).	Open:12/14/06; Action: A summary was provided at the May 2007 UMM; closed 5/10/07.
х	100-126	RL	J.Morse	General RCC	RL (John Morse) will provide EPA with "DAVE" access.	Open:12/14/06; Action: Closed 1/11/07
х	100-127	RL	C. Smith	100-B/C	RL (Chris Smith) will provide EPA with the spent nuclear fuel disposition schedule for 100- B/C.	Open:12/14/06; Action: Closed 1/11/07
Х	300-005	RL	R. Guercia	300 Area D4	RL shall provide EPA with status on the 324/327 building demolition strategy.	Open:12/14/06; Action: Closed 1/11/07
X	300-006	RL	R. Guercia	300 Area D4	The Tri-Parties will develop a process for closing out D4 actions where no known waste site is under the building, and no releases to soil are documented or expected based on existing data.	Open: 1/11/07; Action: RL will set up a meeting with EPA and Ecology to discuss. On 4/12/07 this item was closed.

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
. 0	100-128	RL	R. Guercia	100-N	RL will schedule a briefing with Ecology in October 2007 on the piping near the 1310 and 1322-NB buildings.	Open: 1/11/07; Action: The RL point of contact person changed and the action item revised on 7/12/07.
x	100-129	RL	J. Morse	100-K	RL (John Morse) will provide EPA with a copy of "The KW Pump and Treat System Remedial Design and Remedial Action Work Plan, Supplement to the 100-KR-4 Groundwater Operable Unit Interim Action," DOE/RL-2006-52, Rev. 1.	Open: 1/11/07; Action: Closed 1/11/07
Ο	100-130	RL	J. Zeisloft	100 Areas	EPA and Ecology to discuss footnote in Cleanup Verification Packages/Remaining Site Cleanup Verification Packages (CVP/RSVPs) for immobile contaminates as related to the footnote stated in the Remedial Design Report/Remedial Action Work Plan for immobile contaminates.	Open: 1/11/07; Action: After several attempts to reach agreement, a workshop was scheduled with RL, EPA, and Ecology on August 21, 2007 to resolve.
X	100-131	RL	C. Smith	100 Areas	Ecology requests RL for an updated schedule on remediation designs and sampling work instructions through June 2009.	Open: 1/11/07; Action: Information provided; action closed 2/8/07.
0	100-132	RL	C. Smith	100 Areas	RL will develop proposed changes to the verification sampling approach for tritium in soil.	Open: 2/8/07; Action: After several attempts to reach agreement, a workshop was scheduled with RL, EPA, and Ecology on August 21, 2007 to resolve.

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
Х	300-007	RL	C. Smith	300 Area	EPA requested a meeting on 618-7 to be scheduled, and to include the Washington State Department of Health.	Open: 2/8/07; Action: Meeting was held and this item was closed on 4/12/07.
x	100-133	RL	J. Hanson	100-HR-3	RL and Fluor Hanford will schedule a meeting with Ecology to decipher data trends, and future plans for the chromium plume at the 100-H reactor.	Open: 4/12/07; Action: At the 5/19/07 UMM, RL stated a meeting has been scheduled for May 22. Meeting occurred; this item closed on 6/7/07.
0	300-008	RL	R. Guercia	100/300 Area	RL shall develop the instructions for documenting D4 completions in the 100 and 300 Areas where no known waste site is under the building, and no releases to soil are documented or expected based on existing data. These instructions shall be added into the respective Removal Action Work Plans after review and approval from the respective lead regulatory agency for the specific Removal Action Work Plans in the 100 and 300 Areas.	
X	300-009	RL	J. Sands	300 Area	RL will follow up with EPA on any past or future land evaluations of the southern 300 Area referred to as the "triangle area" where new construction is starting.	Open: 4/12/07; Action: Closed on 7/12/07.
0	100-134	RL	J. Zeisloft	100-D Area	RL will respond to Ecology's electronic mail message sent on April 19, 2007 regarding the 126 D-1 Ash Pit.	

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
Ο	100-135	RL	C. Smith	100 Areas	RL will provide a draft of the 100 Area Explanation of Significant Difference (ESD), which adds waste sites, to EPA and Ecology for review.	Action: A draft of the ESD is
0	100-136	RL	C. Smith	100 Areas	RL will provide EPA and Ecology with the schedule for the next revision of the 100 Area Remedial Design Report/Remedial Action Work Plan.	Open: 6/14/07; Action: The schedule will be provided in August 07.
0	100-137	Ecology	J. Price	100-D	Ecology is sending RL a letter requesting additional work modification (additional sampling) as described in the Hanford Federal Facility Agreement and Consent Order for the 100-D-30 and 100-D-56 sites.	Open: 7/12/07; Action: Ecology has a draft letter, but plans to discuss with S. Charboneau before sending.
х	100-138	RL	J. Hanson	100-K	RL will provide EPA with the next steps regarding the recent discovery of chromium at the KE area; specifically the results for well 199-K-141 and 199-K-142.	Open: 7/12/07; Action: A meeting was held on 7/26, and this action is closed.
x	100-139	RL	J. Hanson	100-K	RL will provide EPA with a copy of the 30% design for the 100-KR-4 expansion.	Open: 7/12/07; Action: A meeting was held on 7/26, and this action is closed.
0	100-140	RL	S. Weil	100/300 Area	EPA requested information for each operable unit on the following areas: 1) total operable unit acreage/boundary map, 2) waste site acreage within each operable unit, and 3) acreage within each operable unit that is cleaned up. Additional discussions are expected on this subject.	Open: 7/12/07; Action: EPA sent RL a letter regarding this request.

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
0	100-141	RL	J. Hanson	100/300 Area	RL shall set-up a meeting with EPA and Ecology regarding aquifer tube installation across the entire site.	Open: 8/9/07; Action:
0	100-142	RL	J. Hanson	100-D	,	Open: 8/9/07; Action:

Attachment D

100/300 Area Unit Manager Meeting August 9, 2007 Washington Closure Hanford Building 2620 Fermi Avenue, Richland, WA 99354 Room C209 1:00-4:30 p.m.

1:00 - 1:30 p.m.

Executive Session (Tri-Parties Only):

0

1:35 p.m. - 2:00 p.m.

Administrative:

- Approval and signing of previous meeting minutes (July 2007)
- Update to Action Items List
- o Next UMM (09/13/2007, Room C209)

2:00 - 4: 30 p.m.

Open Session: Project Updates:

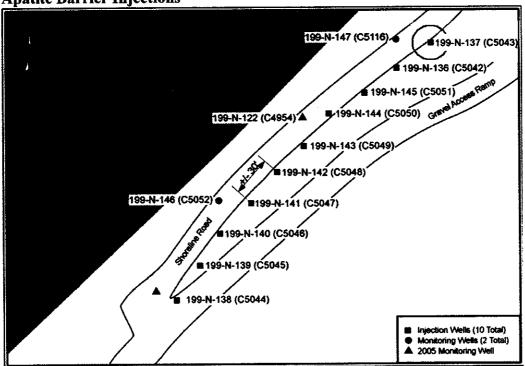
- o 100/300 Area Groundwater (Jim Hanson/Jane Borghese)
- o Groundwater/Source Integration
 - o 5-year Record of Decision Review Update (Cliff Clark/Alicia Boyd)
- o 100/300 Area Field Remediation and Closure (FR)
 - o Sampling and FR Design (Chris Smith/Lorna Dittmer/Rich Carlson)
 - o 100-N (Chris Smith/Scott Parnell)
 - o 100-F (Chris Smith/Jon Fancher)
 - o 300-FF-2 (Chris Smith/John Darby)
 - o 618-10/11 (Chris Smith/Scott Parnell)
 - o 100-B/C (Chris Smith/Dean Strom)
 - o 118-K-1 (Jamie Zeisloft/Dale Obenauer)
 - o 100-D (Jamie Zeisloft/Mark Buckmaster)
 - Management of liquid in ERDF containers (Jim Golden)
- o <u>D4/ISS</u>
 - 300 Area D4 (Rudy Guercia/Donna Yasek)
 - o 100 Area D4 (Rudy Guercia/Dan Saueressia)
 - ISS (Chris Smith/Dan Saueressig)
- End State and Final Closure (John Sands/Jeff Lerch/Jill Thomson)
- o Special Topics

Attachment 1



100-NR-2 OU - Russ Fabre

Apatite Barrier Injections



Apatite Barrier Injections

- All Injections completed July 12, 2007.
- Specific Conductivity in adjacent wells indicates good lateral flow.

Barrier Preliminary Performance on Sr 90 reduction

- Measurements continue to be influenced by previous injections and river stage
- Anticipate continued reductions as the apatite forms

Compliance Well	Baseline	Latest
Number	Measurement/Date	Measurement/Date
199-N-123	1040 pCi/L 4/12/2006	460 pCi/L 7/20/2007
199-N-138	811 pCi/L 4/26/2006	88 pCi/L 7/20/2007
199-N-137	1000 pCi/L 7/07/2006	370 pCi/L 7/20/2007
199-N-136	1800 pCi/L 7/07/2006	540 pCi/L 7/20/2007
199-N-139	4500 pCi/L 7/07/2006	130 pCi/L 7/20/2007
199-N-140	2000 pCi/L 7/07/2006	320 pCi/L 7/20/2007
199-N-141	1000 pCi/L 7/07/2006	1100 pCi/L 7/20/2007
199-N-142	2500 pCi/L 7/11/2006	520 pCi/L 7/20/2007
199-N-122	1100 pCi/L 7/11/2006	1100 pCi/L 7/20/2007
199-N-143	2300 pCi/L 7/11/2006	1600 pCi/L 7/20/2007
199-N-144	1600 pCi/L 7/11/2006	1700 pCi/L 7/20/2007
199-N-145	4700 pCi/L 7/11/2006	220 pCi/L 7/20/2007
199-N-146	660 pCi/L 7/11/2006	1600 pCi/L 7/20/2007
199-N-147	720 pCi/L 7/11/2006	930 pCi/L 7/20/2007

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
 - For the period of July 1-31, 2007:
 - System operated normally.
 - Total average flow through the system was approximately 284 gpm.
 - Average influent hexavalent chromium concentration was 0.037mg/L.

KR-4 Expansion

- Continue with the K expansion design and preparing the RDR/RAWP Supplement (DOE-RL-2006-75, internal draft).
- Briefed EPA on the 30 percent design package(UMM Action Item 100-139: Completed on July 26, 2007, per Larry Gadbois e-mail to Jim Hanson, dated July 27, 2007)
- All wells have been staked and walked down by the Tribes.

KW Groundwater Remediation

- For the period of July 1-31, 2007:
 - System operated normally.
 - Total average flow through the system was approximately 87 gpm. System was down for four days due to communication problems. Extraction well K-139 was two for a couple days due to fiber optics problems.
 - Average influent hexavalent chromium concentration was 0.114 mg/L.

100-K Area Drilling Status-Ron Jackson (FH)

• The drilling of eighteen wells to support the K expansion is planned to start in August 2007.

100-KR-4: K-Basins Monitoring Task—Bob Peterson (PNNL-updated 8/06/07)

Leak Detection Monitoring:

- The most recent results for routine quarterly sampling of wells in the K-Basins network are for samples collected in late April 2007. Results are generally consistent with trends and expectations. Minor changes in trends are occurring at several wells near the KW reactor. The changes may be related to shifts in the groundwater flow pattern because of the new pump-and-treat system. There is no evidence to indicate groundwater impacts because of basin shielding water leakage.
- Monthly sampling continues at three wells close to the KE Basin (199-K-27, 199-K-29, and 199-K-109A) while decontamination of the basin proceeds. Results for the June sampling event are on trend.

Monitoring Well Network:

- The most recent quarterly sampling of K-Basins network wells occurred during late July/early August. Analytical results are expected in early September.
- RL met with Ecology on July 26, 2007 to discuss the next steps regarding the recent discovery of chromium at the KE area; specifically the results for wells 199-K-141 and 199-K-142. (UMM Action Item 100-138: Completed per e-mail from Larry Gadbois to Jim Hanson, dated July 27, 2007)

Reporting:

K-Basins quarterly report for April, May, and June 2007 (PNNL-16766) was distributed on August 8, 2007 via email.

100-KR-4 Well List Update - John Winterhalder

• Table A-3 of Appendix A from the Interim Action Waste Management Plan for the 100-HR-3 and 100-KR-4 Operable Units, DOE/RL-97-01, Rev. 5, has been updated to include 18 new K-West Expansion wells for to be constructed in FY 07 and FY 08. TPA Change Number 169 has been prepared in accordance with Section 9.3 of the TPA Action Plan, and a copy of the signed change notice will be placed in the Administrative Record.

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
 - For the period July 1-31, 2007:
 - The system operated normally.
 - Total average flow through the system was approximately 186 gpm. Extraction well 199-H4-3 is experiencing sanding problems which will required replacing the pump.
 - Average influent hexavalent chromium concentration for H Area was approximately less than 0.016 mg/L.
 - Average influent hexavalent chromium concentration for D Area was approximately 0.086 mg/L.
- DR-5 Treatment Status
 - For the period July 1-31, 2007:
 - System operated normally. Extraction wells D5-20 and D5-5 were on line approximately 50 percent of the time for this month due to communication problems (cable). Work package has been initiated to repair the cables. The cause for these problems is being investigated.
 - Total average flow was approximately 43 gpm.
 - The average influent hexavalent chromium concentration was approximately 0.387 mg/L.
- "Horn" Investigation
 - Completing drilling SOW in preparation to initiate drilling this month.
 - Ecology agreed to RL's proposal to resequence the Horn wells to accommodate additional time required to conduct cultural resources for wells located in sensitive areas. Twelve wells out of the 21 well locations have been cleared for drilling by DOE Cultural and Historic Resource Program (HRP). No changes to the SAI are required.
- Summary of ISRM Status
 - Chromium concentrations in groundwater sampled from select ISRM injection wells are about the same as those collected last July.
- EM-22 Technology Developments
 - Injecting micron-size iron into selected ISRM boreholes: MSE-Technology Applications has prepared a new schedule and budget for evaluating alternative iron compounds for injection. A revised contract is being prepared to accomplish this work. The field test, originally scheduled for July, 2007, will be postponed.
 - EC Treatability Test-Initiated 24 hour continuous operation on July 23. Subcontractor continues to make chemical adjustment and modifications to system to make system operate continuously. In addition, injection well continues to not receive injection flow rates of 45 gpm over sustained period of times which has resulted in surging/purging the injection well. Approximately 450,000 gallons of groundwater has been treated by January 7, 2007. The EC process of reducing Cr+6 to less than 10 ppb is successful.

- The seven chromium source investigation wells are being sampled for hexavalent chromium every other week. Four new wells are being planned to further refine the chromium source in this area.
- EM-20 has committed their support for a chromium source investigation of the northern 100-D plume.
- All wells for the biostimulation test at 100D have been drilled, completed, developed and accepted. Plans for the molasses injection test, scheduled for September 2007 remains on schedule.
- 100-HR-3 Operable Unit Well Name List Update
 - Table A-1 of Appendix A from the Interim Action Waste Management Plan for the 100-HR-3 and 100-KR-4 Operable Units, DOE/RL-97-01, Rev. 5, has been updated to include four additional chrome source investigation wells and 12 Horn investigation well that are planned for construction/installation beginning in about mid-August. TPA Change Number 169 has been prepared in accordance with Section 9.3 of the TPA Action Plan, and a copy of the signed change notice will be placed in the Administrative Record.

300-FF-5 Operable Unit—Bob Peterson and Ron Smith (PNNL-updated 8/06/07)

- Operations and Maintenance Plan Activities
 - 300 Area Sampling and Analysis: Some results are now available for samples collected during the semi-annual event in June. Available results are consistent with established trends and expectations.
 - 618-10 and 618-11 Subregions: The most recent results are for samples collected in late April/early May 2007 at each of these 300-FF-5 subregions. Results are on trend and within expected ranges. Note: Tritium at 699-13-3A, located adjacent to the 618-11 burial ground, has remained fairly constant in the 940,000 ~ 1,070,000 pCi/L range for the past two years.
- Phase III Feasibility Study
 - Technology Screening and Remedial Action Alternatives: A report entitled "Evaluation and Screening of Remedial Technologies for Uranium at the 300-FF-5 Operable Unit, Hanford Site, Washington, has been published as PNNL-16761.
 - Conceptual Site Model Report: Draft text continues to evolve on current conditions, hydrogeologic framework, groundwater flow modeling, and geochemistry considerations related to uranium mobility. Excerpts will be used to support the August 29 public workshop.
 - Groundwater Flow Model: Nothing new to report his month.
- Other Activities
 - VOC Investigation: The first of three additional characterization boreholes should start soon.
 - Treatability Testing (EM-22): No new information to report this month. Polyphosphate injection occurred during June 2007 and subsequent monitoring for impacts on uranium in the aquifer is underway.

100-BC-5 Operable Units-Mary Hartman

• All FY 2007 sampling outlined in the groundwater SAP is complete. When new wells are installed at 100-C-7, we will add them to the sampling schedule (hexavalent chromium, alpha/beta, tritium, and general chemistry).

100-FR-3 Operable Unit—Mary Hartman

All FY 2007 sampling is complete. No activities to report.

Attachment 2



Change Notice for Modifying Approved Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records

Change Number	•	Submitted Und	⊢	Date:
TPA-CN-169		reement Milest N/A	one	08/03/07
Document Number and Title: Interim Action Waste Management Pl. Units, DOE/RL-97-01, Rev. 5	an for the 100-HR-3 an	d 100-KR-4 Ope		Date Document Last Issued: June 2005
Originator: John Winterhalder		Phone: 37	2-8144 or 430	-4737
Description of Change: Update of A	ppendix A, 100-HR-3 a	and 100-KR-4 W	/ell Name, Aq	uifer Sampling Tube, and Seep Lists
	d Regulatory Agency seed in accordance with hanges to the Agreement lan has been modified t ated to include 4 additi- installation beginning ion wells. All 18 wells	the Tri-Party A o add wells to b onal chrome sou about mid-Augu will not be insta	greement Action of the HR-3 arce investigations. The KR-4 alled this fiscal	and KR-4 OU well lists. The HR-3 on wells and 12 Horn investigation OU well list (Table A-3) has been year, but all are included because the
List, is unchanged.	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	, 100 IIIC J	operation of the	ridana 1 aoo samping and soop
Note: The affected page numbers are	A-1 through A-4 and th	ey are attached	to this change	form.
Justification and Impacts of Change				
Revision 6 of the above referenced pla least some of the above wells is sched the waste management plan.				
			:	•
Approvals:				
RL Project Manager	m	<u> 8 - ヴ- z</u> o ウ Date	<u>√</u> Approv	ed Disapproved
Ecology Project Manager (HR-3 OU I		8-9-2007 8-7-07 Date	Approved	

APPENDIX A

100-HR-3 AND 100-KR-4 WELL NAME, AQUIFER SAMPLING TUBE AND SEEP LISTS

Table A-1. 100-HR-3 Operable Unit Well Name List

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting, and included in the UMM minutes)

	 Shading indicates wells added for this change. 					
Well Name	Well Name	Well Name	Well Name	Well Name		
199-D2-06	199-D4-29	199-D4-64	199-D5-18	199-D8-53		
199-D2-08	199-D4-30	199-D4-65	199-D5-19	199-D8-54A		
199-D2-09	199-D4-31	199-D4-66	199-D5-20	199-D8-54B		
199-D2-11	199-D4-32	199-D4-67	199-D5-32	199-D8-55		
199-D3-02	199-D4-33	199-D4-68	199-D5-33	199-D8-68		
199-D3-03	199-D4-34	199-D4-69	199-D5-34	199-D8-69		
199-D3-04	199-D4-35	199-D4-70	199-D5-36	199-D8-70		
199-D4-01	199-D4-36	199-D4-71	199-D5-37	199-D8-71		
199-D4-02	199-D4-37	199-D4-72	,199-D5-38	199-D8-72		
199-D4-03	199-D4-38	199-D4-73	199-D5-39	199-D8-73		
199-D4-04	199-D4-39	199-D4-74	199-D5-40	199-D8-88		
199-D4-05	199-D4-40	199-D4-75	199-D5-41	199-H3-2A		
199-D4-06	199-D4-41	199-D4-76	199-D5-42	199-H3-2B		
199-D4-07	199-D4-42	199-D4-77	199-D5-43	199-H3-2C		
199-D4-08	199-D4-43	199-D4-78	199-D5-44	199-H3-03		
199-D4-09	199-D4-44	199-D4-79	199-D5-86	199-H3-04		
199-D4-10	199-D4-45	199-D4-80	199-D5-92	199-H3-05		
199-D4-11	199-D4-46	199-D4-81	199-D5-93	199-H4-02		
199-D4-12	199-D4-47	199-D4-82	199-D5-95	199-H4-03		
199-D4-13	199-D4-48	199-D4-83	199-D5-97	199-H4-04		
199-D4-14	199-D4-49	199-D4-84	199-D5-98	199-H4-05		
199-D4-15	199-D4-50	199-D4-85	199-D5-99	199-H4-06		
199-D4-16	199-D4-51	199-D4-86	199-D5-100	199-H4-07		
199-D4-17	199-D4-52	199-D4-87	199-D5-101	199-H4-08		
199-D4-18	199-D4-53	199-D4-88	199-D5-102	199-H4-09		
199-D4-19	199-D4-54	199-D4-89	199-D5-103	199-H4-10		
199-D4-20	199-D4-55	199-D4-90	199-D5-104	199-H4-11		
199-D4-21	199-D4-56	199-D4-91	199-D5-106	199-H4-12A		
199-D4-22	199-D4-57	199-D4-92	199-D5-119 ^a	199-H4-12B		
199-D4-23	199-D4-58	199-D4-93	199-D5-120 ^a	199-H4-12C		
199-D4-24	199-D4-59	199-D5-13	199-D5-121a	199-H4-13		
199-D4-25	199-D4-60	199-D5-14	199-D5-122a	199-H4-14		
199-D4-26	199-D4-61	199-D5-15	199-D8-04	199-H4-15A		
199-D4-27	199-D4-62	199-D5-16	199-D8-05	199-H4-15E		
199-D4-28	199-D4-63	199-D5-17	199-D8-06	199-H4-15C		

Chrome source investigation wells to be installed in FY07

Table A-1. 100-HR-3 Operable Unit Well Name List (cont)

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting, and included in the UMM minutes)

Well Name	Well Name	Well Name	Well Name	Well Name
199-H4-15CP	199-H4-48	699-90-34	699-96-43	699-97-45 ^b
199-HR-15CQ	199-H4-49	699-90-37B	699-96-44	699-97-48Bb
199-HR-15CR	199-H4-63	699-90-45	699-96-45	699-97-48Cb
199-HR-15CS	199-H4-64	699-91-46A	699-96-49	699-97-51A
199-H4-16	199-H4-65	699-92-49	699-96-49A	699-98-43 ^b
199-H4-17	199-H5-1A	699-93-48A	699-96-49P	699-98-46 ^b
199-H4-18	199-H6-1	699-94-41 ^b	699-97-41 ^b	699-98-49
199-H4-45	699-83-47	699-94-43 ^b	699-97-43	699-99-42
199-H4-46	699-88-41	699-93-45 ^b	699-97-43B ^b	699-101-48B
199-H4-47	699-89-35	699-95-51b ·	699-97-43C ^b	

bHorn investigation wells to be installed in FY07.

Table A-2. 100-HR-3 Operable Unit Aquifer Tube Sampling and Seep List.

		Aquif	er Tubes		
35-D	44-M	54-D	AT-D-3-S		DD-43-1
35-M	45-D	54-M	AT-D-4-D		DD-43-2
35-S	45-M	54-S	AT-D-4-M	DD-15-2	DD-43-3
36-D	, 45-S	55-D	AT-D-4-S	DD-15-3	DD-44-3
36-M	46-D	55-M	AT-D-5-D	DD-15-4	DD-44-4
36-S	47-D	, 55-S	AT-D-5-M	DD-16-3	DD-49-1
37-D	47-M	57-D	AT-H-1-D	DD-16-4	DD-49-2
37-M	48-D	57-M	AT-H-1-M	DD-17-2	DD-49-3
37-S	48-M	57-S	AT-H-1-S	DD-17-3	DD-49-4
38-D	48-S	58-D	AT-H-2-S	DD-17-WP	DD-50-1
38-M	49-D `	58-M	AT-H-2-M		DD-50-2
39-D	49-M	58-S	AT-H-2-D	- 4	DD-50-3
39-M	49-S	59-D	AT-H-3-D	DD-39-1	DD-50-4
39-S	50-D	59-M	AT-H-3-S	DD-39-2	DH-14-1
40-M	50-M	59-S	DD-06-2	DD-39-3	DH-14-11
40-S	50-S	60-D	DD-06-3	DD-39-4	DH-22-1
41-D	51-D	60-M ı	DD-08-2	DD-41-1	DH-22-2
41-M	51-M	60-S	DD-08-3	DD-41-2	DH-22-3
41-S	51-S	AT-D-1-D	DD-08-4	DD-41-3	DH-1451-1
42-D	52-D	AT-D-1-M	DD-10-2	DD-41-4	DH-1451-2
42-M	52-M	AT-D-1-S	DD-10-3	DD-42-1	
42-S	52-S	AT-D-2-M	DD-10-4	DD-42-2	
43-D	53-D	AT-D-2-S	DD-12-2	DD-42-3	
43-M	53-M	AT-D-3-D	DD-12-3	DD-42-4	
44-D	53-S	AT-D-3-M	DD-12-4	DD-42-4	To the
		ISR	M Tubes		
REDOX 01 (ISRM-01)	REDOX 02 (ISRM-02)	REDOX 03 (ISRM-03)	REDOX 04 (ISRM-04)		
ote: Alternate n	ames are in parent	heses ()			
			Seeps		
SD-098-1	SD-102-1	SD-110-1	SD-110-2	SH-144-1	SH-145-1
SH-150-1	SH-152-2	SH-153-1			

Table A-3. 100-KR-4 Operable Unit Lists

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting, and included in the UMM minutes)

Shading indicates wells added for this change.

		Well Names		
199-K-11	199-K-106A	199-K-124A	199-K-142	199-K-161
199-K-13	199-K-107A	199-K-125A	199-K-143	199-K-162
199-K-18	199-K-108A	199-K-126	199-K-144*	199-K-158
199-K-19	199-K-109A	199-K-127	199-K-145	699-70-68
199-K-20	199-K-110A	199-K-128	1994(-146	699-72-73
199-K-21	199-K-111A	199-K-129	199-K-147	699-73-61
199-K-22	199-K-112A	199-K-130	199-K-148	699-77-54
199-K-23	199-K-113A	199-K-131	199-K-149	699-78-62
199-K-27	199-K-114A	199-K-132	199-K-150	699-81-62
199-K-29	199-K-115A	199-K-133	199-K-151	699-84-63D
199-K-30	199-K-116A	199-K-134	199-K-152	699-87-55
199-K-31	199-K-117A	199-K-135	199-K-153	C3152
199-K-32A	199-K-118A	199-K-136	199-K-154	C3158
199-K-32B	199-K-119A	199-K-137	199-K-155	C3162
199-K-34	199-K-120A	199-K-138	199-K-156	C3163
199-K-35	199-K-121A	199-K-139	1992K-157	C3164
199-K-36	199-K-122A	199-K-140	199-K-159	
199-K-37	199-K-123A	199-K-141	199-K-160	
		Aquifer Tube	S and the second	
14-D	19-D	23-M	AT-K-3-D	AT-K-5-S
14-M	19-M	25-D	AT-K-3-M	AT-K-6-D
14-S	21-M	26-D	AT-K-3-S	AT-K-6-M
15-M	21-S	26-M	AT-K-4-M	AT-K-6-S
17-D	22-D	26-S	AT-K-4-S	DK-04-2
17-M	22-M	AT-K-1-D	AT-K-5-D	DK-04-3
18-S	23-D	AT-K-2-M	AT-K-5-M	
		Seep		
SK-057-3	SK-077-1	SK-082-2	SK-063-1	

K-West 18 well expansion to be installed in FY07-FY08.

Attachment 3

3

Drilling Four New Chromium Source Investigation Wells in the 100-D Area

Concurrence to proceed with the drilling of four new chromium source investigation wells in the 100-D Area

B. L. Charboneau

DOE/RL

8-3-2007

Date

J. B. Price

Washington State Department of Ecology

8/9/2007

Date

Drilling Four New Chromium Source Investigation Wells in the 100-D Area

Supplement to the Field Investigation Plan for the Source of the Southwestern Chromium Plume in the 100-D Area (DOE/RL-2006-74)

July 23, 2007

Introduction

This supplement to the Field Investigation Plan for the Source of the Southwestern Chromium Plume in the 100-D Area (DOE/RL-2006-74) reflects an extension of the original scope of work. Specifically, four new wells will be constructed to supplement data gathered from the seven wells that were completed under the field investigation plan (FIP).

The goal of the original investigation has been to locate, within a 1-hectare area, the apparently continuing source of hexavalent chromium as it enters groundwater from the vadose zone. Data from the initial seven wells significantly reduced uncertainty regarding the location of the chromium source, but not to within an area represented by one hectare or less.

Neither the goal nor the technical approach to achieving it is changed by this document. Rather, the four new wells are intended to further focus the search for the chromium source by increasing sampling density in the vicinity of wells that have shown the highest chromium concentrations.

The balance of this document presents a brief summary of results obtained to date, preliminary interpretations of collected data, the proposed locations for the four new wells, and recommendations to improve overall data yield.

Observations to Date

Hexavalent Chromium Concentration. Table 1 summarizes the results of groundwater sampling and analysis for the seven new wells constructed under the FIP as well as for several other wells in the vicinity. Figure 1 illustrates the project area, well locations, and chromium concentration contours representing samples collected at the end of the initial well development pumping for each of the original seven new wells and corresponding data from existing wells. Sample results depicted in this figure were collected during February and March of 2007. Figure 2 illustrates contours based on samples collected during the eighth sampling event on July 9, 2007.

The highest hexavalent chromium concentrations measured during the field investigation were in wells 199-D5-104 and 199-D5-99, both of which were constructed under the FIP. The highest concentrations noted in these wells are 7,040 μ g/L for 199-D5-104 (May 29, 2007) and 12,560 μ g/L for 199-D5-99 (March 19, 2007). The chromium concentration in 199-D5-104 has remained fairly stable, while the concentration in 199-D5-99 decreased to 1800 μ g/L by May 11, 2007 and has since continued to decrease somewhat.

Water Level Measurements. Currently, there are ten wells in the project area with transducers recording hourly water level measurements. Groundwater elevation data are available from the database located in the *Hanford Virtual Library*. However, groundwater elevation data have not been available in the *Hanford Virtual Library* for wells that are in use for the 100-D Area pumpand-treat operation. Specifically, well 199-D5-39 is an extraction well approximately 130 m west of 199-D5-104, and 199-D5-42 is an injection well approximately 250 m northeast of 199-D5-104. Groundwater elevation data from the 100-D Area pump-and-treat wells are necessary to

Table 1. Results of Hexavalent Chromium Analysis to July 9, 2007(ug/L).

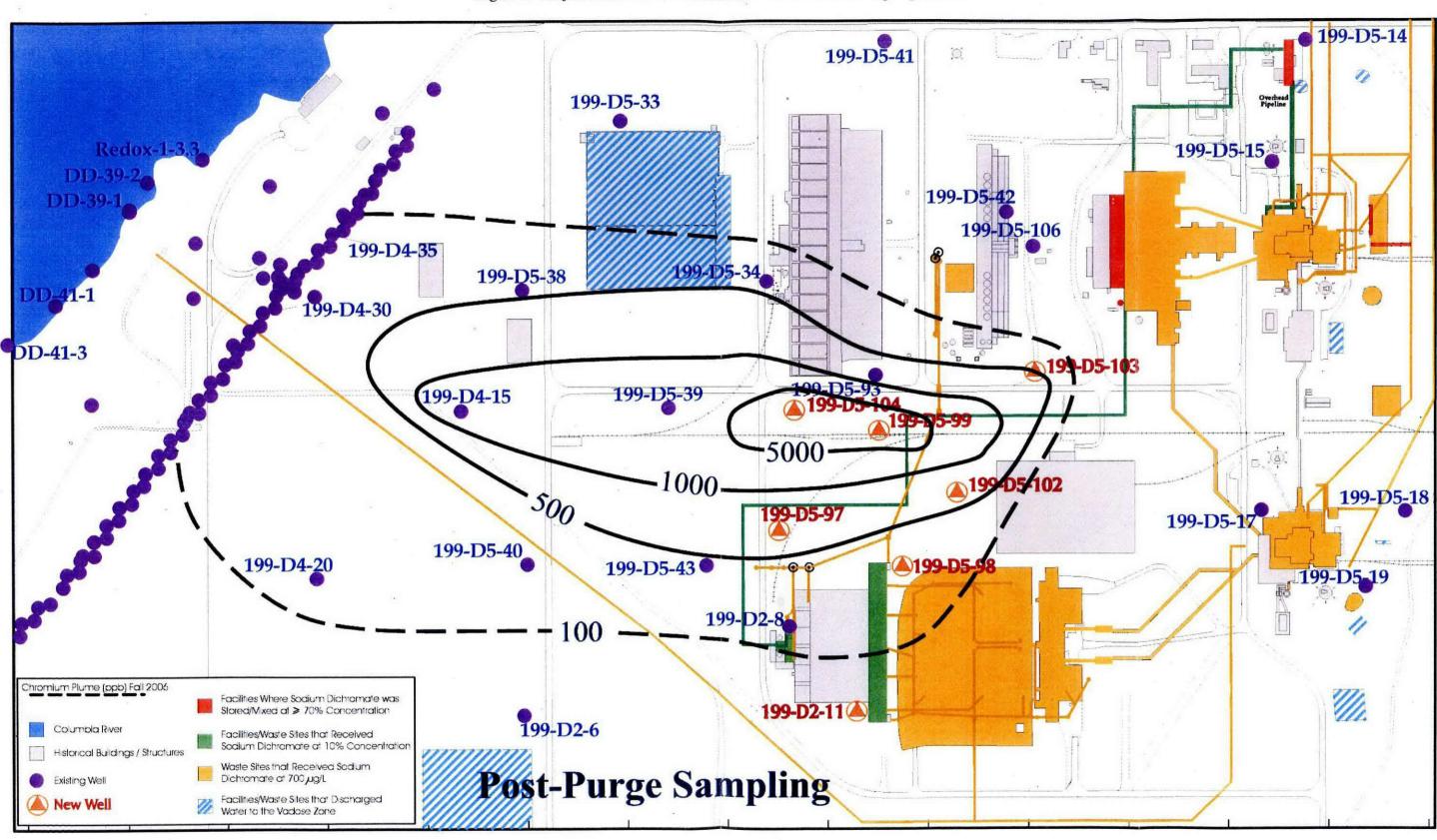
Well Name	Well ID	Event 1 Post- purge	Extra Sample 3/19	Event 2 4/4-4/11	4/16	Event 3 4/24, 4/26	Event 4 5/10-5/11	Event 5 5/29-5/31	Event 6 6/11	Event 7 6/25	Event 8 7/9
199-D5-97	C5390	758		793		855	784	642	641	615	562
199-D5-98	C5391	465	-	348		327	312	338	327	271	237
199-D5-99	C5392	10580	12560	7905		2370	1800	1740	1580	1370	1260
199-D2-11	C5394	16		12		7	5	0	6	9	90
199-D5-102	C5398	540		13	-	231	_ 287	347	393	414	321
199-D5-103	C5399	393		182		250	254	286	275	240	221
199-D5-104	C5400	6840		5094		6720		7040	6670	7260	6570
199-D2-8			-		-	100	96	103	127	192	216
199-D5-34						211	202	220	193	169	150
199-D5-38					360	312	243	167	147.	131	174
199-D5-39				1608	1405				·	994	1420
199-D5-43					612	558	491	463	365	232	178
199-D5-93				1771		135		- 121	115	451	130

Notes:

Well names in italics represent other monitoring wells located in the vicinity.

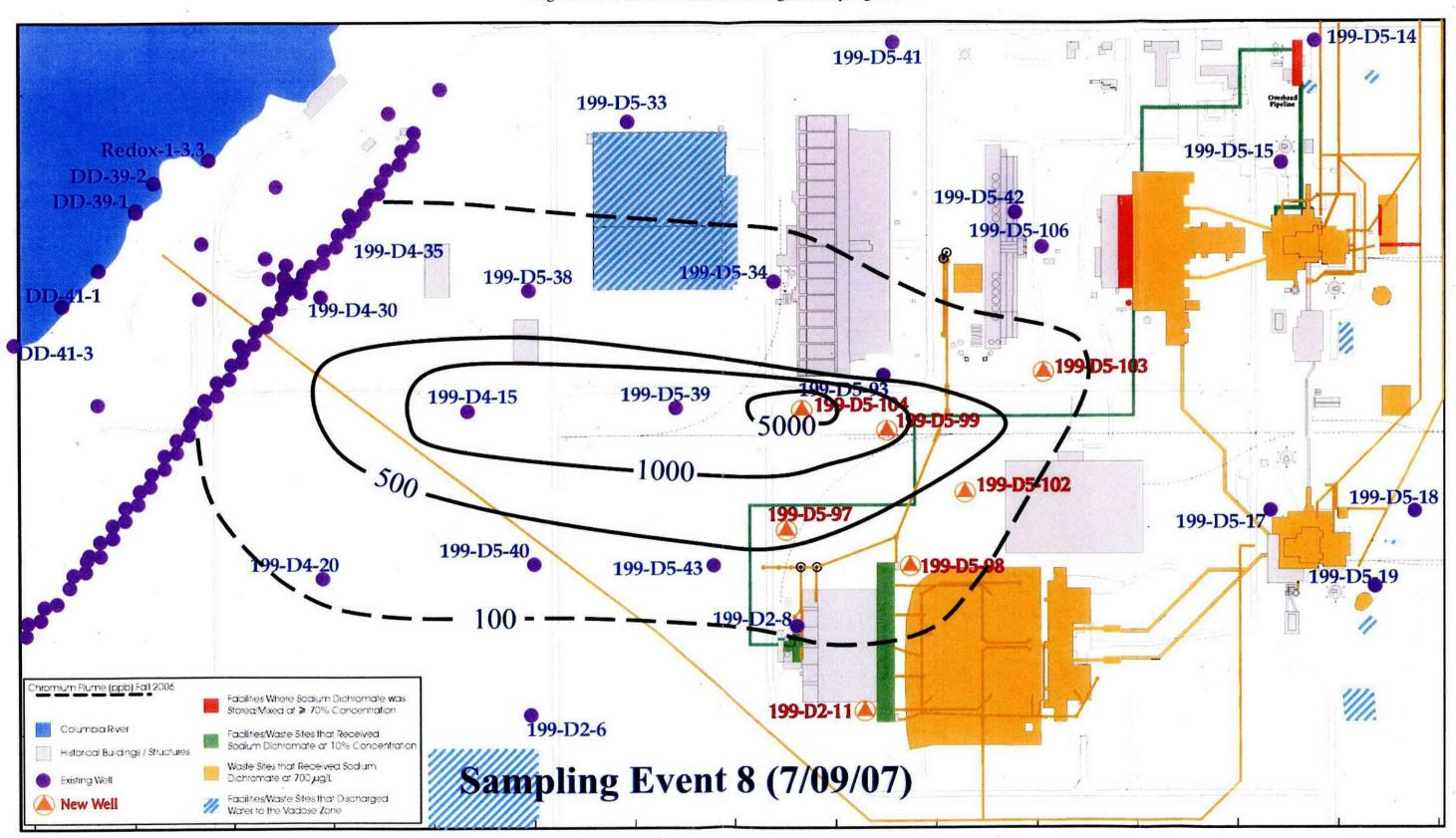
-- No Data Collected

Figure 1. Project Area with Contoured Results of the First Sampling Event.



w

Figure 2. Contoured Results of the Eighth Sampling Event.



determine their influence on the groundwater flow regime in the project area. Once a complete data set is available, detailed groundwater elevation contour maps will be constructed to help refine the location of the chromium source.

<u>Hydraulic Conductivity.</u> Estimates of hydraulic conductivity are based on single-well interpretation of drawdown measured as a function of time during development pumping. The analysis to date indicates relatively high values. For example, estimates for wells 199-D5-98, 199-D5-99, and 199-D5-104 are 194 ft/d, 154 ft/d, and 83 ft/d, respectively.

Proposed Supplemental Well Locations

Figure 4 shows the locations selected by the project team for the four new supplemental wells to be constructed. The well location numbers shown on the figure are used for reference only and are not meant to denote drilling priority. Table 2 briefly describes the rationale for each well location.

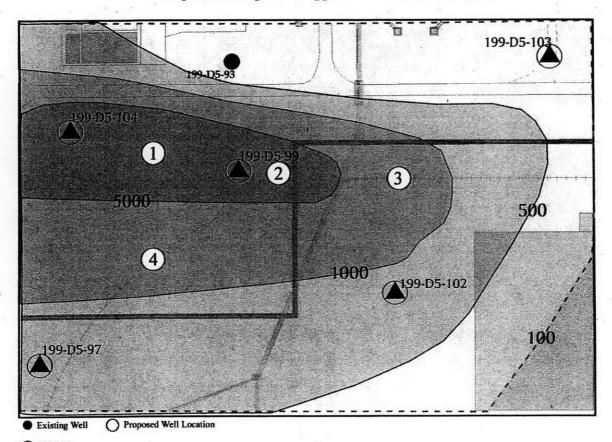


Figure 4. Proposed Supplemental Well Locations.

CSI Well

Table 2. Rationale for Location of New Supplemental Wells.

Location #	Rationale
1	This well location is selected to further define chromium concentrations along the principal plume axis.
2	This location is intended to confirm or eliminate the vicinity of the "stained valve" as the primary source of chromium contamination. The choice of this location is predicated on the assumption that well 199-D5-99 is very near to the chromium source.
3	This location characterizes the upgradient extent of the plume and eliminates (or confirms) a source further upgradient of the pipelines. The location will be moved a short distance outside the track right-of-way should the track remain in place at time of drilling.
4	This location is roughly equidistant from four existing wells and is over the railroad tracks that carried the sodium dichromate feed stock to the 100-D Area. The well will further define the southern extent of the plume and contribute needed water level data. It will also help to eliminate the southern length of the pipeline as a major primary source. The location will be moved a short distance outside the track right-of-way should the track remain in place at time of drilling.

Modifications to Procedures during Drilling of New Supplemental Wells

The modifications to existing procedures and requirements listed below have been reviewed and accepted by the project team. Otherwise, procedures and requirements will remain as presented in the FIP.

- 1. During drilling, two pint jars of soil will be collected every 5 ft. One jar will be archived and samples from the other will be submitted to a fixed laboratory for analysis of hexavalent and total chromium. If obvious contamination is present, indicated by yellow or greenish soil, a split-spoon sample may be collected as directed by the Project Lead.
- 2. The sediments and groundwater from the well to be drilled near the suspected chromium source (Location 2 on Figure 4) will be sampled and analyzed in greater detail than the other three wells. In addition to vadose zone samples collected every 5 ft, split spoon samples will be collected from the intervals 25-27, 40-42, and 55-57 ft below ground surface. The vadose zone split spoon samples will be analyzed for ICP metals, soil moisture, and Hg in addition to hexavalent and total chromium which will be measured in all the soil samples. Also, sediments from immediately above the water table (the capillary fringe) and top of the aquifer immediately below the water table will be captured by split-spoon samples (two 2-ft segments).

The 2-ft split-spoon samples will each consist of four lexan liners that will be individually capped and sealed with tape. One of the 6-inch segments of each of the vadose zone split-spoon samples will be submitted to the laboratory. The Project Lead will choose which of the 6-inch segments will be sent to the laboratory, with a goal of having submitted four samples that encompass the range of vadose zone lithology.

After the first split-spoon sediment sample from the saturated zone is recovered, a temporary screen will be installed across the open interval and the interval will be purged at least three borehole volumes at a low pumping rate before a groundwater sample is collected for measurement of hexavalent chromium. A groundwater sample will be similarly collected at 5-ft intervals through the aquifer, for a total of 4 or 5 depth-specific samples.

At the discretion of the Project Lead, split-spoon samples above and below the groundwater table may be collected at other wells constructed under this supplement.

3. The development practice for the four new wells will be modified to include two 10-minute pumping periods, each followed by a minimum of a 10-minute recovery period. These cycles will then be followed by development pumping until (a) pumping has been sustained for a minimum of two hours, and (b) the turbidity of the effluent is <5 NTU in accordance with WAC 173-303-110. This procedure will increase removal of fines from the upper part of the aquifer and increase the reliability of hydraulic conductivity estimates, but will not substantially change the amount of groundwater to be removed from the well and collected as waste.

Table 3 presents a summary of sampling requirements. The groundwater samples will be analyzed for hexavalent chromium using a spectrophotometric field method with a 10 μ g/L detection limit. Samples will be analyzed promptly upon collection, so sample preservation is unnecessary. Table 4 summarizes analytical methods for laboratory analysis of sediment samples.

Table 3. Sampling and Analysis Requirements

Sample Interval	Sample Volume	Sample Container	Analytical Measprements	Organization Responsible for Analysi
		Drill Cutting Samples	77777	Acopolistote for Allatysi
Every 5 feet through the vadose and saturated zones.	Two pints per sample.	One-pint jars.	Cr-VI, Cr-total	WCH
		Split-Spoon Samples		<u> </u>
Single 2-foot segment immediately above water table (i.e., in the capillary fringe).	As recovered using 2-foot split-spoon sampler.	Lexan split-spoon liners, capped and sealed.	Cr-VI, Cr-total, ICP Metals, Hg, soil moisture	FH
Top 2 feet of the saturated zone.	As recovered using 2-foot split-spoon sampler.	Lexan split-spoon liners, capped and sealed.	Cr-VI, Cr-total	FH
Vadose zone samples at 25-27, 40-42, and 55-57 feet bgs.	As recovered using 2-foot split-spoon sampler.	Lexan split-spoon liners, capped and sealed.	Cr-VI, Cr-total, ICP Metals, Hg, soil moisture	Metals: WCH Soil Moisture: WCH
Additional saturated zone samples, to be collected at 5-foot intervals.	As recovered using 2-foot split-spoon sampler.	Lexan split-spoon liners, capped and sealed.	Cr-VI, Cr-total	FH
		Groundwater Samples	<u> </u>	<u> </u>
(a) During well construction, same as for split-spoon samples through the saturated zone (5-foot intervals). (b) Bi-weekly samples from completed wells.	Minimum 1.0 L.	Polyethylene or glass.	Field parameters plus field analysis for hexavalent chromium	FH

FH = Fluor Hanford

WCH = Washington Closure Hanford

Table 4. Performance Requirements for Sediment Sample Analysis

Measurement	Method	Required Quantitation
Cr - VI	EPA 7196 (alkaline digestion – soils)	Limit ^a
Cr - total	ICP - 6010 (weak acid digestion)	10 µg/L 1 mg/kg
ICP Metals	ICP Metals – 6010 (weak acid digestion)	Varies by metal
Hg	Mercury by cold vapor – 245.N	0.05 mg/kg
Soil Moisture	EPA 160.3 10%, and the required accuracy is 70 – 130%.	N/A

References

- DOE/RL-2006-74, 2007, Field Investigation Plan for the Source of the Southwestern Chromium Plume in the 100-D Area, Rev. 0, U. S. Department of Energy, Richland Operations Office, Richland, Washington.
- Hall, S. H., 1996, "Practical single-well methods for aquifer testing," In Workshop Notebook, <u>Tenth National Outdoor Action Conference and Exposition, May 13-15, 1996, Las Vegas, Nevada, National Ground Water Association, Columbus, Ohio.</u>
- WAC 173-303, "Dangerous Waste Regulations," Washington Administrative Code.

Attachment 4



Change Notice for Modifying Approved Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

Change Number										
TPA-CN-171	Tri-Party Agre	ement Milesto A		08/09/07						
Document Number and Title: Treatability Test Plan for Removal of Chromium from Groundwater at 100-D Area Using Electrocoagulation, DOE/RL-2006-70, Rev. 0 Date Document Last Issued: February 2007										
Originator: John Winterhalder Phone: 372-8144 or 430-4737										
Description of Change: Add option of using a second injection well (199-D5-33) located near the 182-D reservoir.										
B Charboneau and J Price agree that the proposed change modifies an approved RL Lead Regulatory Agency										
Work plan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records, and not Chapter 12.0, Changes to the Agreement.										
The third paragraph on page 4-1 is me	odified as follows to allow	option of usin	g a second in	jection well:						
A new injection well (199-D5-106) will be installed near the test site to receive treated effluent. The location of the injection well was selected based on proximity to the proposed site, and adjacent to existing injection well 199-D5-42. Injection well 199-D5-42 has not had any problem accepting injection rates of greater than 50 gpm. In the event that the new well cannot receive a sustained injection rate of at least 40 gpm, existing well 199-D5-33 can be used for treated effluent injection throughout the duration of the test. No hexavalent chromium has been associated with the injection of treated effluent in this area in the vicinity of the current injection well, 199-D5-42, indicating the injected effluent has not mobilized a source of hexavalent chromium on the vadose zone. Soil sampling above the water table will be conducted during drilling of the injection well. Justification and Impacts of Change:										
The new EC treatability test injection well (199-D5-106) is experiencing some diminished capacity for accepting treated effluent at sustained rates of 40 to 50 gpm. The EC unit will not function effectively at flow through rates of less than 40 gpm. Another injection well is needed to ensure that the treatability test proceeds according to the plan and as much operational data as possible is obtained, so that the EC technology can be thoroughly evaluated for possible future use at Hanford. During injection, well 199-D5-33 will not be available for monitoring changes in groundwater associated with the 182-D Reservoir; however, changes in the reservoir status are not expected during the duration of the treatability test through September 30, 2007. Well 199-D5-33 will be converted back to a monitoring well as soon as possible following this date, including any necessary repairs.										
Approvals:										
Johns. Man.	<u></u>	7/2∞7 Date	Appro	ved Disapproved						
Ecology Project Manager (HR-3 OU	Lead)	8/9/2007 Date	Approve	ed Disapproved						

Attachment 5

3

Concurrence to Addendum to "Sampling and Analysis Instructions for TCE Characterization, 300-FF-5 Operable Unit, Fiscal Year 2007" (SGW-32607, Rev. 0, April 2007)

K. M. Thompson

DOE/RL

Date 24, 200 7

A. L. Boyd

U.S. Environmental Protection Agency

May 30, 2007

Addendum to "Sampling and Analysis Instructions for TCE Characterization, 300-FF-5 Operable Unit, Fiscal Year 2007" (SGW-32607, Rev. 0, April 2007)

Introduction

A drilling program to investigate the occurrence of volatile organic compounds (VOC) in the unconfined aquifer beneath the 300 Area began in April 2007. The investigation was prompted by the recent discovery of VOCs at depths in the unconfined aquifer greater than those covered by routine groundwater monitoring. The discovery occurred during drilling associated with a limited field investigation (LFI) for uranium and is described in a report prepared to document the results of the LFI (PNNL-16435). An investigative strategy for further characterizing the VOC discovery and a path forward for the drilling program are described in a sampling and analysis instruction (SGW-32607). Background information on VOCs in the 300 Area is also included in that instruction.

The VOC investigation is proceeding in phases, with the initial phase being the drilling of a second borehole in close proximity to the VOC discovery borehole (LFI borehole 399-3-20) (Figure 1). At this location, trichloroethene was encountered in a sandy unit situated at middepth in the unconfined aquifer. The measured concentration was 630 ug/L, which is well above the 5-ug/L standard for drinking water. Additional detections included tetrachloroethene and cis-1,2-dichloroethene; the latter is likely a degradation product of the trichloroethene and/or tetrachloroethene, both of which were used in the 300 Area. All three VOCs are considered contaminants of potential concern for the 300-FF-5 Operable Unit (EPA 1996).

The initial VOC investigation borehole (399-3-21) was drilled during April and May 2007. The borehole extended downward through the entire sandy unit and to the bottom of the unconfined aquifer. Samples collected during drilling confirm the presence and thickness of the sandy unit, and also the elevated levels of trichloroethene at this location (Figure 2). The new results are summarized in Table 1.

This addendum to the sampling and analysis instruction for the VOC investigation (SGW-32607) contains early results from the initial phase drilling; proposed locations and specifications for three additional characterization boreholes; and a description of work for an interpretive report on the investigation. Drilling three characterization boreholes for the next phase of the VOC investigation is expected to occur during July 2007. Each borehole will be subsequently completed as a monitoring well.

Source of Contamination

The source for the VOCs detected during the limited field investigation and the initial phase of this VOC investigation is uncertain. Trichloroethene and tetrachloroethene were routinely used in the 300 Area, although no documentation regarding major spills or other discharges to the ground have yet been described (BHI-00012). Storage and handling of these two degreasers are known to have occurred at a minimum of two locations: A large storage tank at the 311 Tank

Farm (approximately 150 meters northwest of LFI well 399-3-19), and at the former 300 Area Solvent Evaporator (approximately 300 meters north-northwest of 399-3-19).

If losses of large amounts occurred at either of these locations, the contaminant would have moved downward in the aquifer because of the liquid's greater density than groundwater. Subsequent lateral movement of the contaminant might then have been controlled to some extent by the shape of structure contours at the bottom of the most transmissive hydrologic unit, i.e., at the contact between the Hanford gravels and the underlying Ringold Formation. Figure 3 shows the shape of that contact surface. The locations selected for second phase of VOC characterization boreholes are partially based on the assumption of a source region located to the northwest and possibly north of the initial drilling location (399-3-21). Additional considerations include the proximity to a second major liquid waste disposal facility (South Process Pond), which very likely received VOCs in its waste stream, and to areas where the sandy subunit within Ringold Formation Unit E is present.

Locations and Completions

The proposed locations for the three new boreholes and initial phase well 399-3-21 (C5575) are shown on Figure 1. The rationale for these proposed locations are as follows:

Borehole 399-3-22 (C5706):

The location for 399-3-22 is approximately 250 meters to the northwest of 399-3-21. This location is upgradient from 399-3-21 and will be helpful in defining the lateral extent of the contaminant plume. The borehole is likely to encounter the sandy unit where high concentrations have been detected previously. This borehole will be completed with a screened interval placed near the bottom of the unconfined aquifer, which will complement the coverage of the upper portion of the unconfined aquifer by nearby wells 399-3-8 and 399-3-12.

Borehole 399-4-14 (C5707):

Borehole 399-4-14 will be drilled approximately 100 meters to the south of 399-3-21. This location is along the axis of a northwest-southeast trending valley in the erosional surface at the contact between Hanford gravels and Ringold Formation Unit E. If the hypothesis is correct that the movement of VOC contamination is controlled to some extent by hills and valleys on this erosional surface, the location is suitable for helping identify the downgradient extent. The borehole will be completed with a screened interval that monitors the upper portion of the unconfined aquifer.

Borehole 399-2-5 (C5708):

Borehole 399-2-5 will be drilled within the footprint of the former South Process Pond at a site approximately 150 meters west of LFI well 399-3-18. The proposed site is located near the southern boundary of the mapped footprint and approximately midway along an east-west line. The location is appropriate for multiple reasons, including being within a former waste site likely to have received effluent containing VOCs, and being in an area where the sandy subunit is

likely to be present. The borehole will be completed with a screened interval that monitors the upper portion of the unconfined aquifer.

The proposed completions as monitoring wells for these three characterization boreholes considers not only the need for information on VOCs, but also for information on the distribution of uranium, and the hydrogeologic characteristics of the erosional surface including the presence or absence of the sandy subunit. The proposed screened intervals described above provide comprehensive coverage of the unconfined aquifer for monitoring all contaminants of potential concern in the 300 Area. The well completions described herein are based on the assumption that, if TCE is detected, it will be found in the same stratum and at concentrations similar to or less than that found in the other LFI wells and those drilled for this investigation. If this assumption proves to be incorrect, the well will be completed at the appropriate vertical interval after consultation with DOE and EPA.

Sampling During Drilling

Representative sediment samples (i.e., splitspoon or core) will be collected from the vadose zone (including backfill where present) and uppermost portion of the saturated zone to include the Hanford and upper Ringold Formations. Discrete water samples will be collected at various depths throughout the saturated zone, to include at least one sample from each of the various hydrologic units of interest—specifically targeting the saturated Hanford gravel, sandy subunit in Ringold Unit E, and the underlying sandy gravel sequence. A sample will also be collected near the bottom of the unconfined aquifer. The proposed sampling schedule is intended to support this VOC investigation and characterization of contaminant uranium in the vadose zone and aquifer. A summary of the planned sampling is provided in Table 2.

The protocols associated with collecting sediment and water samples during drilling will be the same as those used for initial borehole 399-3-21, and are described in the original sampling and analysis instruction (SGW-32607). Additional protocols associated with uranium analyses are described in the LFI report for uranium (PNNL-16435).

Analysis of Sediment Samples

Basic geochemical characteristics (e.g., major anions and cations; field parameters) and sediment moisture content (vadose zone only) will be determined for each sediment sample. Samples will be analyzed to determine the amount of uranium present. Three methods will be used to determine uranium content: a water extract, an acid extract, and a microwave digestion. This is the protocol followed during the LFI (PNNL-16435).

Analysis of Water Samples

Water samples will be analyzed according to the schedule presented in the sampling analysis instruction (SGW-32607, Table 1-3). The analysis suite includes major anions and cations; dissolved organic carbon; uranium and gross alpha; and volatile organic compounds. A subset of samples will also be used for rapid turnaround analysis of VOCs at PNNL's Environmental

Sciences Laboratory in the 300 Area. Immediate VOC results for sampling will support the selection of the next interval for sampling while drilling proceeds.

Hydraulic Testing and Geophysical Logging

Aquifer testing will be performed in each borehole as drilling proceeds in accordance with protocols described in the sampling and analysis instruction (SGW-32607, Table 1-2). Three horizons in the borehole will be tested: saturated Hanford gravels; sandy unit in Ringold Unit E; and near the bottom of the unconfined aquifer. A fourth test will be conducted in the completed monitoring well.

Routine logging of the borehole will be conducted using geophysical tools (high resolution spectral gamma and neutron moisture) to identify variations in moisture content and stratigraphy.

Coordination with Other 300 Area Investigations

The drilling program associated with the VOC investigation provides an opportunity for other investigations to collect sediment and water samples from strategic locations. Of particular interest to the Integrated Field-Scale Challenge project is detailed information on the vadose zone beneath the South Process Pond. Specific requests to participate in sampling during the drilling of 399-2-5 have not yet been defined. Activities that piggyback on the VOC investigation drilling will be funded separately.

Reporting

The results of drilling, logging (geologic and geophysical), sample collection, hydraulic testing, and well completion activities will be documented in a borehole completion report for the four new VOC boreholes. Analytical results for samples and other measurements will be included if they are available.

An interpretive report describing the results of the VOC investigation will be prepared. The report will include an interpretation of the drilling results regarding the extent of VOC contamination and its relationship to the hydrostratigraphy; a discussion of likely source areas for the contamination, as gleaned from historical documents and WIDS; and a discussion of likely future conditions and the potential for exposure of VOCs at surface locations. Uncertainties in the conceptual site model for VOC contamination will be described along with recommendations for reducing uncertainty.

References

EPA. 1996. Record of Decision for USDOE Hanford 300-FF-1 and 300-FF-5 Operable Units Remedial Actions. Agreement Between U.S. Department of Energy and U.S. Environmental Protection Agency, with Concurrence by the Washington State Department of Ecology, July 17, 1996.

SGW-32607

Kooiker, C.A., R.E. Peterson, R.M. Smith, and B.A. Williams. 2007. Sampling and Analysis Instructions for TCE Characterization, 300-FF-5 Operable Unit, Fiscal Year 2007. SGW-32607, Rev. 0, April 2007. Fluor Hanford, Inc., Richland, Washington.

PNNL-16346

Lindberg, J.W. and R.E. Peterson. 2007. "300-FF-5 Operable Unit." Chapter 2.12 in *Hanford Site Groundwater Monitoring for Fiscal Year 2006*, eds. MJ Hartman, LF Morasch, and WD Webber. PNNL-16346, March 2007. Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15127

Peterson, R.E. (editor). 2005. Contaminants of Potential Concern in the 300-FF-5 Operable Unit: Expanded Annual Groundwater Report for FY 2004. PNNL-15127, March 2005. Pacific Northwest National Laboratory, Richland, Washington. (Contributors: E.J. Freeman, C.J. Murray, R.E. Peterson, P.D. Thorne, M.J. Truex, V.R. Vermeul, M.D. Williams, S.B. Yabusaki, J.M. Zachara, J.L. Lindberg, and J.P. McDonald)

PNNL-16435

Williams, B.A., C. F. Brown, W. Um, M. J. Nimmons, R. E. Peterson, B. N. Bjornstad, D. C. Lanigan, R. J. Serne, F. A. Spane, and M. L. Rockhold. 2007. *Limited Field Investigation Report for Uranium Contamination in the 300 Area, 300-FF-5 Operable Unit, Hanford Site, Washington.* PNNL-16435, Draft March 2007 for DOE and EPA review. Pacific Northwest National Laboratory, Richland, Washington.

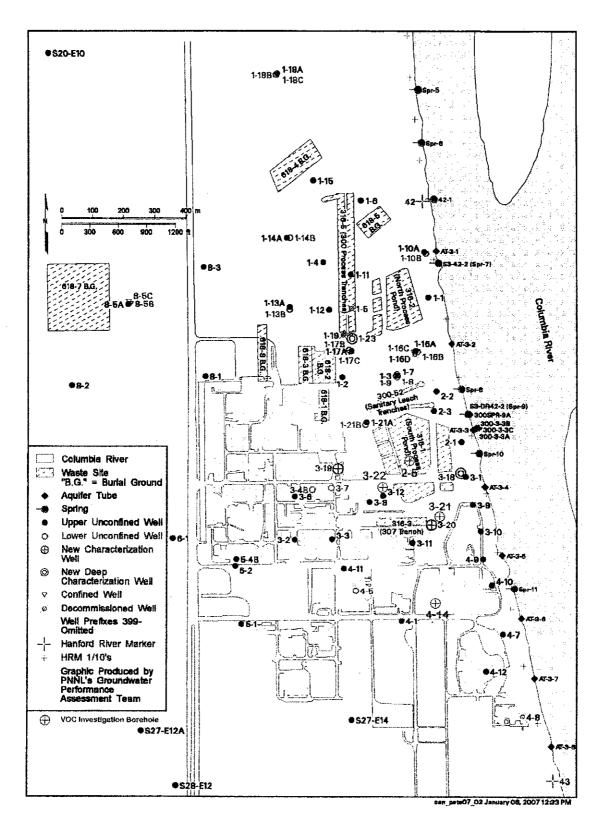


Figure 1. Location Map for Monitoring Wells and Proposed Characterization Boreholes

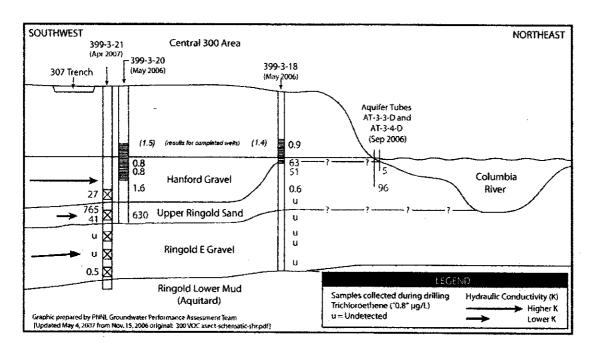


Figure 2. Cross Section Showing VOC Results from Initial Investigation Borehole

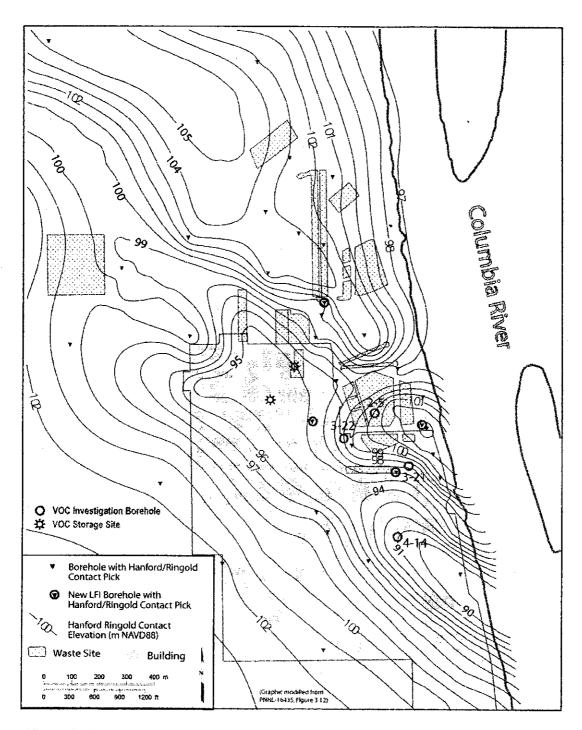


Figure 3. Structure Contour Map of Contact Separating the Hanford and Ringold Formations

Table 1. Volatile Organic Compounds in Samples from Characterization Boreholes Located Near the 307 Trenches (316-3)

Drilling sample location designator	Depth to top of sample interval (feet-below ground surface)	Depth to bottom of sample interval (fest-below ground surface)	Dritting sample relative to final screened interval	Sample Date/Time	Trichloro- ethene (ug/L) MCL = 5 MDL = 0.20	Tetrachloro- ethene (ug/L) MCL = 5 MDL = 0.19	Cls-1,2- dichloro- ethene (ug/L) MCL = 70 MDL = 0.19	Vinyl chlorid (ug/L) MCL = 2 MOL = 0.23
	399-1-23	Near southern		300 Area Proces	s Trenches (316-	ő waste skej		
C5000,399-1-23 (1)	33.5	34	Within	4/3/2006	U	U	U	
C5000,399-1-23 (2)	36	39	Within	4/4/2006	0.20	U	U	į
C5000,399-1-23 (3)	43	43.5	Within	4/4/2006	U	U	U	
C5000,399-1-23 (4)	47	48.5	Within	4/5/2006	U,	U	U	
 (completed well) 	25	50	20 C	7/8/2006	0.22	0	T L	No.
(completed well)	25	englise on the children was selffed.	Screen	9/14/2008	Secretary of the second secretary in	U	\$ 5 % U	
C5000,399-1-23 (5)	53.5	55	Below	4/5/2008	2.10	0.20	3.00	
C5000,399-1-23 (6)	58.6	60		4/6/2006	2.20	U.	15.00	
C5000,399-1-23 (7)	67	70	Below	4/7/2006	0.27	u u	32.00	
C5000,399-1-23 (8)	77	82	Below	4/10/2006	1.10	U	48.00	
C5000,399-1-23 (9)	88.5	92		4/11/2006	2.20	Ų:	51.00	
C5000,399-1-23 (10)	105.5	110	Below	4/17/2006	u	<u>U</u> .	57.00	<u> </u>
04000 000 0 40 (4)					h Process Pands	(316-1 waste sitt		
C4999,399-3-18 (1)	42.5	42.5	Within	3/14/2006	0.85	Ų	_ U	
C4999.399-3-18 (10)	42.6	47.9	Within	4/13/2006	0.78	U Several taken taken	U Yana kana arama	
(completed well)	33	**************************************	and the second second	6/27/2006	21.40	with the U	u yan in	Search of the contract and
C4999,399-3-18 (2)	46	A Company of the Comp	At bottom	3/14/2006	63.00	1.80	0.71	
C4999,399-3-18 (3)	52.5	52.5	Below	3/15/2006	51.00	0.83	0.66	· · · · · · · · · · · · · · · · · · ·
C4999,399-3-18 (4)	66	70	Below	3/16/2006	0.64	U	U	<u> </u>
C4999,399-3-18 (5)	76	78	Below	3/20/2006	U	U	U	
C4999,399-3-18 (6)	86	89	Below	3/21/2006	U	U	ุ่ม	
C4999,399-3-18 (7)	98	101	Below	3/22/2006	U	U	0.85	
C4999,399-3-18 (8)	107	109.	Below	3/22/2006	U	U-	U	
C4999,399-3-18 (9)	120	121.5	Below	3/23/2006	U U	U.	3.00	
C5001 399-3-19 (1)	53	99-3- <i>19. WIANG</i> , 53	Within	4/26/2006	waste disposal	snes U	11	
C5001 399-3-19 (2)	57.5	58	Within	4/27/2006	1.20 1.20		U	. (
C5001 399-3-19 (3)	63	63	Within	4/27/2006	1.20	U	U	į.
(completed well)	ି ୬ ଫ ଅଟ ି	65	Screen	7/6/2006	0.77	control of the second	one that are not a second	Britania (
(completed well)	40	65	Screen	9/25/2006	1.20	, i	i d	
C5001 399-3-19 (4)	80	88	Below	4/28/2006	1.70	U	u .	gradient de la companya de la compa
C5001 399-3-19 (5)	100	102.5		5/3/2006	1.40	Ü	U	
C5001 399-3-19 (6)	no sample :	no sample	Below :	3/3/2,000	1,40		· Ü	. (
	399-3-20			de of 307 Proces	ss Trench (316-3			
C5002 399-3-20 (1)	51	53,5	Within	5/12/2006	0.84	wasie siloj	U	
C5002 399-3-20 (2)	60	63	Within	5/12/2006	0.80	Ŭ.	Ü	
(completed well)	40:	65	Screen	7/6/2006	1.50	warada da da	a Calab	
(completed well)	40	65	Screen	9/25/2006	1.50	េះប៉	i i i i i i	And the state of t
C5002 399-3-20 (3)	72	73	Below	5/15/2006	1,60	Ü	บ็	Considerati Carelle
C5002 399-3-20 (4)	90	92	Below	5/16/2006	630.00	9.90	6.50	
C5002 399-3-20 (5)	no sample	no sample	Below					
C5002 399-3-20 (6)	no sample	no sample	Below					
	3-21: Adjacent to	downgradient s	ide of 307 Pro	cess Trench (31	6-3 waste site)-Pi	NNL Rapid Turn	Results	
C5575 399-3-21 (1)	69.5	74.5	Above	4/17/2007	26.60	0.50	0.12	
C5575 399-3-21 (2)	84.9	89.3	Above	4/20/2007	765.00	18.40	19.80	i i
C5575 399-3-21 (3)	94.5	98		4/25/2007	40.50	0.42	25.80	
C5575 399-3-21 (4)	109.5	116	Above	4/30/2007	U	U	Ų	
C5575 399-3-21 (5)	125	129	Above	5/2/2007	U	IJ	U	· t
(completed well)			Screen	Market Company				
C5575 399-3-21 (6)	142	147		5/3/2007	0.46	U	U	Į.
color Key: Blue = und bbreviations: MCL = fround elevation at LF	drinking wate	standard; M	IDL = metho	d detection li	mit; U = unde	tected; na = n	ot analyzed	

Page 10 of 12

Table 2. Summary of Activities Conducted During Drilling

		Activity Schedule for VOC Investigation Bo	reholes 399-2-5, 399-3-22, and 399-4-14		
Activity	Well	Description	Notes	Schedule	
Sediment Sampling*	399-2-5	10 Samples: 1 in backfill, 6 between backfill and wate table, 2 in Hanford below water table, 1 in Ringold sandy submit. Six additional samples collected above the water table and placed in moisture cans in the field for moisture determination.	All samples will be analyzed for microwave digestable, acid leachable, and water leachable uranium.	Well drilling is expected to star in July. Depending on the drilling technique, it is expecte	
	399-3-22	7 Samples: 3 in smear zone, 2 just below the water table, 2 in Ringold sandy subunit. Six additional samples collected above the water table and placed in moisture cans in the field for moisture determination.	All samples will be analyzed for microwave digestable, acid leachable, and water leachable uranium.	to take 3 to 4 weeks to complete each well. The third well is expected to be completed by the end of Augus	
399-4-1		5 Samples: 3 in smear zone, 1 just below the water table, 1 in Ringold sandy subunit. Six additional samples collected above the water table and placed in moisture cans in the field for moisture determination.	All samples will be analyzed for microwave digestable, acid leachable, and water leachable uranium.	completed by the end of Augu if drilling starts the first of July	
Water Sampling	39 9 -2-5	8 Water Samples: 2 in the Hanford formation, 3 in the Ringold sandy subunit, 3 in the Ringold E gravel.	5 Water samples (1 In the Hanford, 2 in the Ringold sandy subunit, 2 in the Ringold E gravel) will be analyzed for VOCs on rapid turnaround. All samples will undergo routine lab analyses for uranium, VOCs, metals, anions, and alkalinity. Field parameters will also be measured in the field.		
	399-3-22	8 Water Samples: 4 in the Hanford formation, 2 in the Ringold sandy subunit, 2 in the Ringold E Gravel	2 Water samples (1 in the Hanford, 1 in the Ringold sandy subunit) will be analyzed for VOCs on rapid tumaround. All samples will undergo routine lab analyses for uranium, VOCs, metals, anions, and alkalinity. Field parameters will also be measured in the field.	Water samples will be collected as the borehole is advanced. Is expected to take 4 to 6 hour to prepare the well, collect the sample, and return to drilling for each sample collected.	
	8 Water Samples: 4 in the Hanford formation, 2 in the Ringold sandy subunit, 2 in the Ringold E Gravel		2 Water samples (1 in the Hanford, 1 in the Ringold sandy subunit) will be analyzed for VOCs on rapid turnaround. All samples will undergo routine lab analyses for uranium, VOCs, metals, anions, and alkalinity. Field parameters will also be measured in the field.		
Aquifer Testing	399-2-5	4 Aquifer Tests: 1 at the water table, 1 in the Ringold sandy subunit, 1 at the bottom of the Ringold E Gravel, and one in the completed well.	These tests will be co-located where a water sample is collected at the same depth. A fourth test will be conducted in the completed well.		
	399-3-22	4 Aquifer Tests: 1 at the water table, 1 in the Ringold sandy subunit, 1 at the bottom of the Ringold E Gravel, and one in the completed well.	These tests will be co-located where a water sample is collected at the same depth. A fourth test will be conducted in the completed well. Also, while the completed well is undergoing developmental pumping, adjacent water table well(s) will be monitored to assess the vertical communication through intervening hydrogeologic units.	where groundwater samples are collected. It is anticipated that it will take 4 to 6 hours to conduct each test.	
	399-4-14	4 Aquifer Tests: 1 at the water table, 1 in the Ringold sandy subunit, 1 at the bottom of the Ringold E Gravel, and one in the completed well.	These tests will be co-located where a water sample is collected at the same depth. A fourth test will be conducted in the completed well.		
Geophysical Logging	399-2-5	Spectral gamma log for well after reaching total depth and all samples and aquifer tests have been completed			
	399-3-22	Spectral gamma log for well after reaching total depth and all samples and aquifer tests have been completed	This activity is the responsibility of FH.	One day should be allotted for gamma logging for each well.	
	399-4-14	Spectral gamma log for well after reaching total depth and all samples and aquifer tests have been completed			

Table 2. (contd)

Activity	Well	Description	Notes	Schedule	
Well Completion	399-2-5	Well to be completed as a water table monitoring well			
Well to be completed as a water table miniming well Well to be completed at the bottom of the unconfined aquifer just above the Ringold Lower Mud unit		Well to be completed at the bottom of the unconfined aquifer just above the Ringold Lower Mud unit	This activity is the responsibility of FH.		
3:	399-4-14	Well to be completed as a water table monitoring well			
Borehole Completion Report	4 VOC Wells	completion and data collected for wells 399-2-5, 399-3-21,	12000.1.	This report will be complete after all analyses and aquife tests have been reported.	
VOC Investigation Report	4 VOC Wells	of the data presented in the borehole completion report.	lampiagement and augreent and future mobility/evectors	This report will be complete after the borehole completion report is published.	

Assumes these are split-spoon or intact core samples. Routine grab samples will occur at ~5 foot depths throughout the boreholes. Abbreviations: FH = Fluor Hanford, Inc.; PNNL = Pacific Northwest National Laboratory; VOC = volatile organic compounds.

Attachment 6

	Affects Current Protectiveness ¹	May Affect Future Protectiveness ²	TPA Lead	Action	Status August
Issues and Actions	(Yes / No)	(Yes / No)	Regulator	Due Date	2007
100/300 Crosscutting				50 A 2 1 1 1	
Issue 1 . Additional risk assessment information is needed to evaluate the interim actions prescribed within the records of decisions and to develop final cleanup decisions.	No ³	Yes			
Action 1-1. Submit Draft A of the River Corridor Baseline Risk Assessment Report.	No ³	Yes	EPA/WDOE	Jun-07	Complete
Action 1-2. Submit draft sampling and analysis plan for Inter-Areas Shoreline Assessment.	No ³	Yes	EPA/WDOE	Aug-06	Complete
New Action 1-3. Reassess and resubmit to EPA the protectiveness determinations for operable units 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1. 100-FR-2. 100-HR-1. 100-HR-2, 100-HR-3, 100-IU-2, 100-IU-6, 100-KR-1, 100-KR-2, 100-KR-4, 100-NR-1, 300-FF-1, and 300-FF-2 using new information from the River Corridor Baseline Risk Assessment and submit to EPA an Addendum with, as appropriate, updated Protectiveness Determinations, Issues, and Follow-up Actions.				Feb-08	7
Issue 2. A strategy to obtain the final records of decisions and integrate the waste sites, deep vadose zone and groundwater has not been developed and agreed upon with the regulator agencies.	No ³	No			
Action 2-1. Submit Draft A of the River Corridor Strategy for Achieving Final Cleanup Decision in the River Corridor. Document will identify issues for integration and provide alternatives for future discussions between the Tri-Parties on milestones for final records of decision in the River Corridor.	No ³	No	EPA/WDOE	Nov-06	Complete
New Action 2-2. Reach agreement between the Tri-Party Agencies on a strategy and schedule to obtain final records of decisions in the River Corridor.				Nov-07	06/07 in progress
New Action 2-3. Submit a TPA change package with new milestones for submitting RI/FS work plans and proposed plans for all operable units in the river corridor. New milestones shall require submission of RI/FS work plans and proposed plans for final actions at all of the following operable units that do not already have these documents approved: 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1. 100-FR-2. 100-HR-1. 100-HR-2, 100-HR-3, 100-IU-2, 100-IU-6, 100-KR-1, 100-KR-2, 100-KR-4, 100-NR-1, 300-FF-1, and 300-FF-1				Feb-08	?

	Affects Current Protectiveness ¹	May Affect Future Protectiveness ²	TPA Lead	Action	Status August
Issues and Actions	(Yes / No)	(Yes / No)	Regulator	Due Date	2007
Issue 3. The southeastern (inland) extent of the chromium groundwater plume from the 116 □ K-2 trench, northeast of the current injection wells, has not been delineated.	No ³	Yes			
Action 3-1. Install three additional wells to further delineate the southeastern (inland) extent of the chromium groundwater plume from the 116-K-2 trench, northeast of the current injection wells. Wells installed as part of the pump-and-treat system expansion or injection well relocation may count towards this effort if appropriately located.	No ³	Yes	EPA	Aug-08	?
Issue 4. The small chromium plume at KW Reactor site has reached the river, as evidenced by near-shore aquifer tubes. There is currently no active remediation system in place for the small chromium plume at the KE-KW Reactor site. Therefore, construction of a new pump-and-treat system has been initiated in response to this condition.	Yes	Yes			
Action 4-1. Construct a new pump-and-treat facility to the address the chromium groundwater plume in the KW Reactor area.	Yes	Yes	EPA	Aug-08	Complete
Issue 5. Groundwater monitoring indicates that the expansion of the 100-K Area pump- and-treat extraction system has not yet achieved the remedial action objective.	Yes	Yes		PSARASILAS PSARASILAS PSARASILAS PARASILAS	
Action 5-1. Expand the 100-K Area pump-and-treat system by 378.5 liters (100 gallons) per minute to enhance remediation of the chromium plume between the 116-K-2 and the N Reactor perimeter fence.	Yes	Yes	EPA	Aug-08	?
Action 5-2. Add additional wells between the 166-K-2 trench and the N Reactor perimeter fence for groundwater extraction, and connect the additional wells to the pump-and-treat system.	Yes	Yes	EPA	Mar-07	06/07 wells installed, not connected
Issue 6. The pump-and-treat system is ineffective and inefficient in reducing the flux of strontium-90 to the Columbia River, providing only a fraction (1:10) of the protection provided by natural radioactive decay. The degree of protection provided by hydraulic control from the pump-and-treat is unproven.	Yes	Yes			

Issues and Actions	Affects Current Protectiveness ¹ (Yes / No)	May Affect Future Protectiveness ² (Yes / No)	TPA Lead Regulator	Action Due Date	Status August 2007
Action 6-1. Implement the treatability test plan for permeable reactive barrier utilizing apatite sequestration as described in the <i>Strontium-90 Treatability Test Plan for 100-NR-02 Groundwater Operable Unit</i> (DOE 2005c). Issue Treatability Test Report.	Yes	Yes	WDOE	Sep-08	06/07 on track
Issue 7. Additional ecological data is needed to assess the interim actions prescribed within the record of decisions and to develop final cleanup standard. The extent of shoreline water quality impacts related to the diesel spill that occurred circa 1963 are not well known.	No ³	Yes			
Action 7-1. Perform additional data collection to support risk assessment, provide to Ecology previously collected data, and coordinate with River Corridor sampling efforts to collect additional pore water data from new and existing aquifer tubes along the 100-NR-2 shoreline in order to assess water quality impacts.	No ³	Yes	WDOE	Sep-08	06/07 In planning (FH)
100-D Area					
Issue 8. Groundwater monitoring data indicates there is an unidentified chromium vadose source in the 100-D Area near the demolished 190-DR clear wells.	No ³	Yes			
Action 8-1. Complete a field investigation to investigate additional sources of chromium groundwater contamination within the 100-D Area. Additional geologic and geochemical investigations of the vadose zone in the 100-D Area.	No ³	Yes	WDOE	Mar-09	06/07 in progress
Issue 9. There is less than adequate data to characterize potential chromium groundwater contamination between the 100-D and 100-H Area, in the area known as the "horn."	No ³	Yes			

	Affects Current Protectiveness ¹	May Affect Future Protectiveness ²	TPA Lead	Action	Status August
Action 9-1. Perform additional characterization of the aquifer for chromium contamination between the 100-D and 100-H Area, in the area known as the "horn," and evaluate the need to perform remedial action to meet the remedial action objectives of the 100-D record of decision for interim action. This issue will also be addressed in the final record of decision.	(Yes / No) No ³	(Yes / No) Yes	Regulator WDOE	Sep-09	06/07 in progress (should be complete in 2008)
Action 9-2. Incorporate the "horn" area into the 100-HR-3 interim ROD treatment zone if Action 9-1 indicates "horn" contains a groundwater chromium plume that needs immediate remediation.	Yes	Yes	WDOE	Sep-09	?
Issue 10. Some of the groundwater wells near the 182-D reservoir show conductivity values similar to values expected for raw water indicating some leakage from the reservoir.	Yes	Yes		100 - 100 -	
Action 10-1. Issue direction to the operating contractor to change operations to further minimize leakage from the 182-D reservoir.	Yes	Yes	WDOE	Completed	Complete
Issue 11. A few wells within the in situ redox manipulation barrier have shown break through much sooner than expected.	Yes	Yes			
Action 11-1. Initiate limited iron amendments to the in situ redox manipulation barrier to evaluate whether this enhances the performance.	Yes	Yes	WDOE	Sep-07	06/07 in progress, program/date change
Issue 12. Groundwater samples from one deep well extending below the aquitard exceed the drinking water standard (100 mg/L) for chromium. The extent of chromium contamination in this zone is not well understood.	No ³	Yes			
Action 12-1. Perform additional characterization of the aquifer below the initial aquitard.	No ³	Yes	WDOE	Sep-09	?

Issues and Actions	Affects Current Protectiveness ¹	May Affect Future Protectiveness ²	TPA Lead Regulator	Action Due Date	Status August 2007
Issues and Actions 200 Areas	(Yes / No)	(Yes / No)	Regulator	Due Date	2007
Issue 13. There is less than adequate deep groundwater monitoring data downgradient of T Tank Farm to define the nature and extent of technetium-99 contamination. Further characterize the technetium-99 groundwater plume near T Tank Farm.	No ³	Yes			
Action 13-1. Complete a data quality objective process and sampling plan to further characterize the technetium-99 groundwater plume near T Tank Farm.	No ³	Yes	EPA	Mar-07	06/07 drilling continues
Issue 14. The recent expansion of the 200-ZP-1 extraction well network near the TX□TY Tank Farm may result in technetium-99 contamination being pulled into the 200-ZP-1 treatment system. Treatment options for groundwater contaminated with technetium-99 need to be assessed.	No ³	Yes			
Action 14-1. Assess treatment options to address technetium-99 near T Tank Farm.	No ³	Yes	EPA	Sep-07	
Issue 15. Soil resistivity measurements have detected large regions of anomalous high soil conductivity in the area south of PUREX around the 216-A-4 crib and near the B/C cribs and trenches. Further characterization of the B/C cribs and trenches is needed.	No ³	Yes			
Action 15-1. Complete data quality objective process and sampling plan to further characterize the high soil conductivity measurements detected at B/C cribs and trenches.	No ³	Yes	EPA	Dec-07	
Issue 16. Efficiency and effectiveness of the 200-ZP-1 pump-and-treat system could be increased by increasing the pumping rate to fully utilize the treatment capacity.	No ⁴	Yes		Section of the Control of the Contro	
Action 16-1. Increase the pump size in 200-ZP-1 extraction wells 299 □ W15 □ 45 and 299-W15-47.	No ⁴	Yes	EPA	Mar-07	
Issue 17. Efficiency of the carbon tetrachloride remediation could be increased by increasing the use of the 200-ZP-2 vapor extraction system. The soil-vapor extraction system is in limited operation. Expanding the soil-vapor extraction operations should be evaluated.	No⁵	Yes			

Issues and Actions	Affects Current Protectiveness ¹ (Yes / No)	May Affect Future Protectiveness ² (Yes / No)	TPA Lead Regulator	Action Due Date	Status August 2007
Action 17-1. Evaluate expanding the soil-vapor extraction operations. Also, specifically review converting former groundwater extraction well 299□W15□32 to a soil-vapor extraction well.	No ⁵	Yes	WDOE	Mar-07	
Issue 18. The remedial action objective for uranium was based upon the Washington State <i>Model Toxics Control Act</i> (MTCA) cleanup standard of 48 ppb when the 200□UP□1 interim ROD was issued. Since this time, EPA has established a drinking water standard for uranium of 30 ppb. There are also some other issues to be addressed within the ROD if an explanation of significant difference is prepared. These include the limited quarterly pumping requirement at well 299-W23-19, adjusting the pumping requirement for 200-UP-1 due to limited flow within the extraction well network, and technetium-99 groundwater contamination at other locations within the operable unit.	No ⁶	Yes			
Action 18-1. Prepare an explanation of significant difference for 200-UP-1 interim ROD.	No ⁶	Yes	WDOE	Jun-08	
300 Area	No Company	244-1000-100	act a company		
Issue 19. Predicted attenuation of uranium contaminant concentrations in the groundwater under the 300 Area has not occurred. DOE is currently performing additional characterization and treatability testing in the evaluation of more aggressive remedial alternatives.	Yes	Yes			
Action 19-1. Complete focused feasibility study for 300-FF-5 Operable Unit to provide better characterization of the uranium contamination, develop a conceptual model, validate ecological consequences and evaluate treatment alternatives. Concurrently test injection of polyphosphate into the aquifer to immobilize the uranium and reduce the concentration of dissolved uranium. These activities support a CERCLA proposed plan.	No ⁷	Yes	EPA	Sep-08	
1100 Area				4450.4	0.00
Issue 20. Groundwater monitoring for the 1100-EM-1 Operable Unit is no longer necessary but continues following an extended period of monitoring that shows contaminant levels are below the maximum contaminant level and continue to show a downward trend.	No ⁸	No ⁸			
Action 20-1. Submit a change request to modify groundwater monitoring for the 1100-EM-1 Operable Unit.	No ⁸	No ⁸	EPA	Jun-07	
1 Does this issue/action currently affect the protectiveness of the remedy	?				

	Affects Current Protectiveness ¹	May Affect Future			
•	1 TOLCHI CACOS	Protectiveness ²	TPA Lead	Action	Status August
Issues and Actions	(Yes / No)	(Yes / No)	Regulator	Due Date	2007
2 Will this issue/action affect the protectiveness of the remedy in the future	ure?				
3 Identifying the need for, and acquiring new data in the future, does not	affect the curren	t status of protec	tiveness.		
4 Identifying the need for, and expanding the capacity of the pumps in the future, does not affect the current status of protectiveness.					
5 Identifying the need for, and increasing the use of the vapor extraction system in the future, does not affect the current status of					
protectiveness.					
6 Changing the remedial action objective or other requirements of the ROD through an ESD does not affect the current status of					
protectiveness.					
7 Completion of the focused feasibility study in the future does not affect the current status of protectiveness					
8 Modifying the groundwater monitoring requirements for the 1100-EM-1 Operable Unit does not affect the current status of					
protectiveness.					
RCP - River Corridor Remediation Project					
GRP - Groundwater Remediation Project					
EPA – Environmental Protection Agency					
WDOE - Washington State Department of Ecology					

Attachment 7



Field Remediation Sample Design and Cleanup Verification for the July 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
300 AREA			
	RL/Regulator Review Draft A WI for 600-243	8/20/2007	10/3/2007
	RL/Regulator Review Draft A WI for 300-275	8/20/2007	10/3/2007
	RL/Regulator Review Draft A WI for 300-274	8/20/2007	10/3/2007
	RL/Regulator Review Draft A WI for 618-13	8/20/2007	10/8/2007
	RL/Regulator Sign Rev. 0 WI for 600-243	10/9/2007	10/16/2007
	RL/Regulator Sign Rev. 0 WI for 300-275	10/9/2007	10/16/2007
	RL/Regulator Sign Rev. 0 WI for 300-274	10/9/2007	10/16/2007
	RL/Regulator Sign Rev. 0 WI for 618-13	10/17/2007	10/24/2007
	RL/Reg Rev of Draft A Closeout Document 300-275	12/31/2007	2/13/2008
	RL/Reg Rev of Draft A Closeout Document 600-243	1/10/2008	2/26/2008
	RL/Reg Rev of Draft A Closeout Document 300-274	1/31/2008	3/18/2008
	RL/Reg Sig & Issue Rev 0 Close Document 300-275	2/14/2008	2/25/2008
	RL/Reg Sig & Issue Rev 0 Close Document 600-243	2/27/2008	3/5/2008
,	RL/Reg Sig & Issue Rev 0 Close Document 300-274	3/19/2008	3/26/2008
,	RL/Reg Review Draft A Closure Doc for 618-13	5/15/2008	7/1/2008
	RL/Reg Sign Rev. 0 Closure Doc for 618-13	7/24/2008	7/31/2008
	RL/Regulator Review Draft A WI for 300-32	12/12/2007	1/14/2008
	RL/Regulator Review Draft A WI for 300-2	1/3/2008	1/30/2008
	RL/Regulator Review Draft A WI for 303-M UOF	1/9/2008	2/5/2008
	RL/Regulator Review Draft A WI for UPR-300-2	1/21/2008	2/14/2008
	RL/Regulator Sign Rev. 0 WI for 300-32	1/23/2008	1/30/2008
	RL/Regulator Sign Rev. 0 WI for 300-2	2/11/2008	2/19/2008
	RL/Regulator Sign Rev. 0 WI for 303-M UOF	2/14/2008	2/25/2008
	RL/Regulator Sign Rev. 0 WI for UPR-300-2	2/27/2008	3/5/2008
	RL/Reg Review Draft A Closure Doc for 300-32	6/16/2008	7/30/2008
	RL/Reg Review Draft A Closure Doc for 300-2	7/2/2008	8/18/2008
	RL/Reg Review Draft A Closure Doc for 303-M UOF	7/9/2008	8/21/2008
	RL/Reg Review Draft A Closure Doc for UPR-300-2	7/21/2008	9/3/2008
100-BC	•		
	RL/Regulator Review Draft A WI for (1607-B5)	7/23/2007	9/11/2007
	RL/Reg Review Draft A Closure Doc for 1607-B1	7/23/2007	9/5/2007
	116-C-3 RL/Regulator Approve/Signature Rev. 0 WI	8/6/2007	8/8/2007
	RL/Regulator Review Draft A WI for (100-B-22)	8/8/2007	9/5/2007
	RL/Regulator Review Draft A WI for (100-B-21)	8/9/2007	8/27/2007
	RL/Regulator Review Draft A WI for (100-B-18)	8/13/2007	9/10/2007
	RL/Regulator Review Draft A WI for (100-B-23)	8/14/2007	9/11/2007
	116-C-3 RL/Reg review of Draft A Closeout Doc.	9/4/2007	9/11/2007
	RL/Regulator Sign Rev. 0 WI for (100-B-21)	9/6/2007	9/13/2007
	118-B-1 RL/Reg Rev of Draft A Closeout Doc (SP)	9/10/2007	9/20/2007
	RL/Regulator Sign Rev. 0 WI for (100-B-22)	9/17/2007	9/24/2007
	116-C-3 RL/Reg Sig. & Issue Rev 0 Closeout Doc.	9/19/2007	9/25/2007
	RL/Regulator Sign Rev. 0 W1 for (100-B-18)	9/19/2007	9/26/2007
	RL/Regulator Sign Rev. 0 WI for (1607-B5)	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for (100-B-23)	9/20/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 1607-B1	9/27/2007	10/4/2007
	RL/Regulator Review Draft A WI for (100-B-19)	10/23/2007	11/19/2007
	RL/Regulator Sign Rev. 0 WI for (100-B-19)	12/3/2007	12/10/2007

Field Remediation Sample Design and Cleanup Verification for the July 2007 UMM

100-D

RL/Regulator Review Draft A WI for 100-D-2	6/6/2007	9/6/2007
RL/Regulator Review Draft A WI for 100-D-56	7/23/2007	8/16/2007
RL/Regulator Review Draft A WI for 100-D-30	7/23/2007	8/16/2007
RL/Regulator Sign Rev. 0 WI for 100-D-30	8/9/2007	8/16/2007
RL/Regulator Sign Rev. 0 WI for 100-D-56	8/9/2007	8/16/2007
RL/Reg Review Draft A Closure Doc for100-D-56	8/14/2007	9/27/2007
RL/Reg Review Draft A Closure Doc for100-D-30	8/14/2007	9/27/2007
RL/Reg Review Draft A Closure Doc for100-D-33	8/14/2007	9/27/2007
RL/Reg Review Draft A Closure Doc for100-D-35	8/14/2007	9/27/2007
RL/Reg Review Draft A Closure Doc for100-D-41	8/14/2007	9/27/2007
RL/Reg Review Draft A Closure Doc for100-D-40	8/14/2007	9/27/2007
RL/Reg review of Draft A Closeout Doc 100-D-50:1	8/15/2007	9/27/2007
RL/Regulator Sign Rev. 0 WI for 100-D-2	8/29/2007	9/6/2007
RL/Regulator Review Draft A WI for 120-D-2	8/30/2007	9/27/2007
RL/Regulator Review Draft A WI for 126-DR-1	8/30/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-56	9/20/2007	9/27/2007
RL/Regulator Sign Rev. 0 WI for 120-D-2	9/20/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-30	9/20/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-33	9/20/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-35	9/20/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-41	9/20/2007	9/27/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-D-40	9/20/2007	9/27/2007
RL/Regulator Sign Rev. 0 WI for 126-DR-1	9/20/2007	9/27/2007
RL/Reg Sign/Issue Rev 0 Closure Doc 100-D-50:1	10/3/2007	10/3/2007
RL/Regulator Review Draft A WI for 100-D-32	12/13/2007	1/15/2008
RL/Regulator Review Draft A WI for 100-D-43	12/19/2007	1/21/2008
RL/Regulator Review Draft A WI for 100-D-3	12/31/2007	1/28/2008
RL/Regulator Review Draft A WI for 100-D-45	1/7/2008	1/22/2008
RL/Regulator Sign Rev. 0 WI for 100-D-32	1/8/2008	1/15/2008
RL/Regulator Sign Rev. 0 WI for 100-D-43	1/14/2008	1/21/2008
RL/Regulator Sign Rev. 0 WI for 100-D-45	1/15/2008	1/22/2008
RL/Regulator Sign Rev. 0 WI for 100-D-3	1/21/2008	1/28/2008
RL/Reg Review Draft A Closure Doc for 126-DR-1	2/11/2008	3/26/2008
RL/Reg Review Draft A Closure Doc for100-D-2	2/20/2008	3/26/2008
RL/Reg Review Draft A Closure Doc for 120-D-2	3/5/2008	3/26/2008
RL/Regulator Review Draft A WI for 118-D-4	3/5/2008	4/1/2008
RL/Reg Sign Rev. 0 Closure Doc for 120-D-2	3/19/2008	3/26/2008
RL/Reg Sign Rev. 0 Closure Doc for 100-D-2	3/19/2008	3/26/2008
RL/Reg Sign Rev. 0 Closure Doc for 126-DR-1	3/19/2008	3/26/2008
RL/Regulator Sign Rev. 0 WI for 118-D-4	3/25/2008	4/1/2008
RL/Regulator Review Draft A WI for 100-D-47	4/22/2008	5/19/2008
RL/Regulator Sign Rev. 0 WI for 100-D-47	5/12/2008	5/19/2008
RL/Reg Review Draft A Closure Doc for100-D-32	6/12/2008	7/8/2008
RL/Reg Review Draft A Closure Doc for100-D-32	6/17/2008	7/8/2008
RL/Reg Review Draft A Closure Doc for100-D-45	6/17/2008	7/31/2008
RL/Reg Sign Rev. 0 Closure Doc for 100-D-32	6/30/2008	7/8/2008
RL/Reg Sign Rev. 0 Closure Doc for 100-D-45	7/24/2008	7/31/2008
RL/Reg Review Draft A Closure Doc for100-D-43	7/31/2008	9/16/2008
RL/Regulator Approval of AMP (100-D_MD_FS)	7/10/2008	8/13/2008

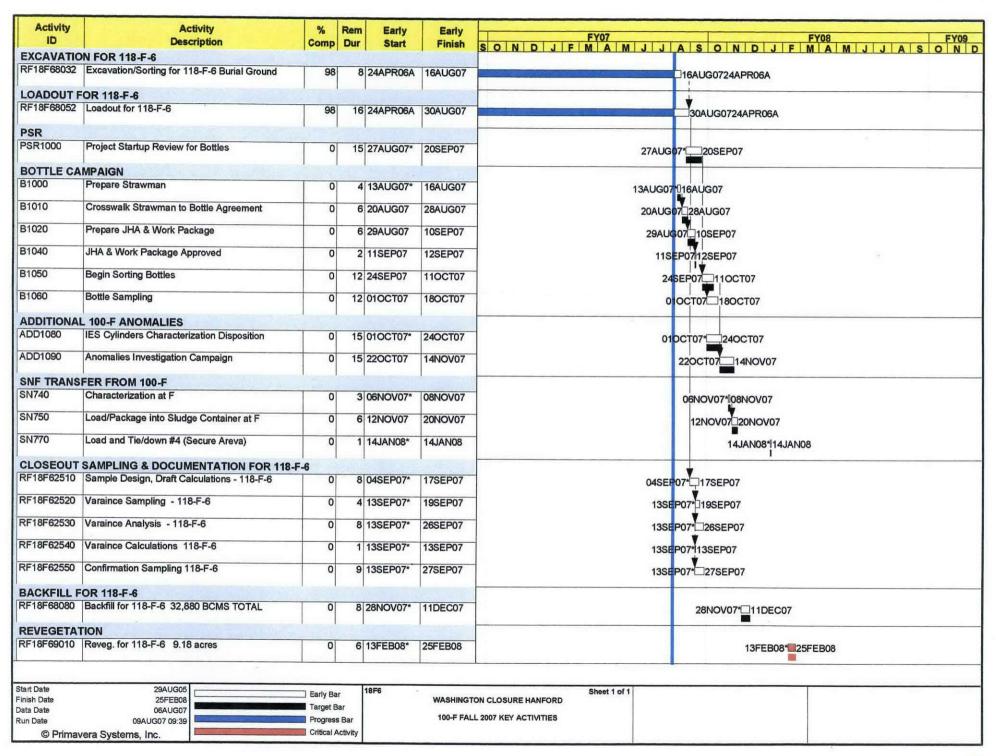
Field Remediation Sample Design and Cleanup Verification for the July 2007 UMM

100-F

RL/Regulator Review Draft A WI for 100-F-54	6/7/2007	8/28/2007
RL/Regulator Review Draft A Wi for 100-F-57	6/20/2007	8/14/2007
RL/Reg Review Draft A WI for -1607-F4	7/17/2007	8/13/2007
RL/Reg Review Draft A WI for -1607-F1	7/23/2007	8/16/2007
RL/Reg Review Draft A Closure Doc for -Pipeline	7/23/2007	9/5/2007
RL/Reg Sign Rev 0 WI for -1607-F4	8/6/2007	8/13/2007
RL/Reg Sign Rev 0 WI for -1607-F1	8/9/2007	8/16/2007
RL/Regulator Review Draft A WI 120-F-1	8/13/2007	8/30/2007
RL/Regulator Review Draft A WI for 100-F-44	8/16/2007	9/13/2007
RL/Reg Sign Rev 0 Closure Doc for Pipeline	8/21/2007	8/28/2007
RL/Regulator Sign Rev. 0 WI for 100-F-57	8/23/2007	8/30/2007
RL/Reg Review Draft A Closure Doc for 100-F-56	8/23/2007	10/9/2007
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RL/Regulator Approve/Signature Rev. 0 WI 120-F-1	9/11/2007	9/17/2007
RL/Reg Review Draft A Closure Doc for -118-F-2	9/17/2007	9/27/2007
RL/Regulator Sign Rev. 0 WI for 100-F-44	9/25/2007	10/2/2007
RL/Reg Review Draft A Closure Doc for -118-F-8	10/1/2007	11/13/2007
RL/Reg review of Draft A Closeout Docm. 128-F-2	10/1/2007	11/13/2007
RL/Reg Review Draft A Closure Doc for -118-F-2	10/9/2007	11/7/2007
RL/Reg Review Draft A Closure Doc for -118-F-1	10/10/2007	11/27/2007
RL/Reg Review Draft A Closure Doc for -118-F-5	10/11/2007	11/28/2007
RL/Reg Review Draft A Closure Doc for -120-F-1	10/30/2007	12/17/2007
RL/Reg Sign Rev. 0 Closure Doc for 100-F-56	10/31/2007	11/7/2007
RL/Reg Sign Rev 0 Closure Doc for -118-F-2	10/31/2007	11/7/2007
RL/Reg Review Draft A Closure Doc for -1607-F1	11/8/2007	12/31/2007
RL/Reg Review Draft A Closure Doc for -1607-F-4	11/8/2007	12/31/2007
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RL/Reg Sign Rev 0 Closure Doc for -118-F-5	11/19/2007	11/28/2007
RL/Reg Sign. & Issue Rev 0 Closeout Docm.128-F-2	11/27/2007	12/4/2007
RL/Reg review of Draft A Closeout Docm. 118-F-6	11/27/2007	12/26/2007
RL/Reg Review Draft A Closure Doc for 100-F-46	12/4/2007	1/22/2008
RL/Reg Review Draft A Closure Doc for 100-F-45	12/11/2007	1/29/2008
RL/Reg Review Draft A Closure Doc for 100-F-54	12/13/2007	1/31/2008
RL/Reg Sign Rev 0 Closure Doc for -120-F-1	12/18/2007	12/27/2007
RL/Reg Review Draft A Closure Doc for 100-F-50	12/19/2007	2/6/2008
RL/Reg Sign Rev 0 Closure Doc for -1607-F1	12/19/2007	12/31/2007
RL/Reg Sign Rev 0 Closure Doc for -1607-F4	12/19/2007	12/31/2007
RL/Reg Review Draft A Closure Doc for 100-F-49	12/26/2007	2/11/2008
Resolve/Incorp RL/Reg Commnts Prep Rev.0 118-F-6	12/27/2007	12/31/2007
RL/Reg Review Draft A Closure Doc for 100-F-48	1/2/2008	2/14/2008
RL/Reg Review Draft A Closure Doc for 100-F-57	1/7/2008	2/20/2008
RL/Reg Review Draft A Clearure Doc for 100-F-44	1/28/2008	3/12/2008
RL/Reg Review Draft A Closure Doc for 100-F-51	1/31/2008 2/7/2008	3/18/2008 3/25/2008
RL/Reg Review Draft A Closure Doc for 100-F-52		
RL/Reg Sign Rev. 0 Closure Doc for 100-F-46	2/13/2008	2/21/2008
RL/Reg Review Draft A Closure Doc for 100-F-53	2/14/2008	4/1/2008
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RL/Reg Sign Rev. 0 Closure Doc for 100-F-50	3/3/2008	3/10/2008
RL/Reg Sign Rev. 0 Closure Doc for 100-F-49	3/5/2008	3/12/2008
RL/Reg Sign Rev. 0 Closure Doc for 100-F-48	3/11/2008	3/18/2008

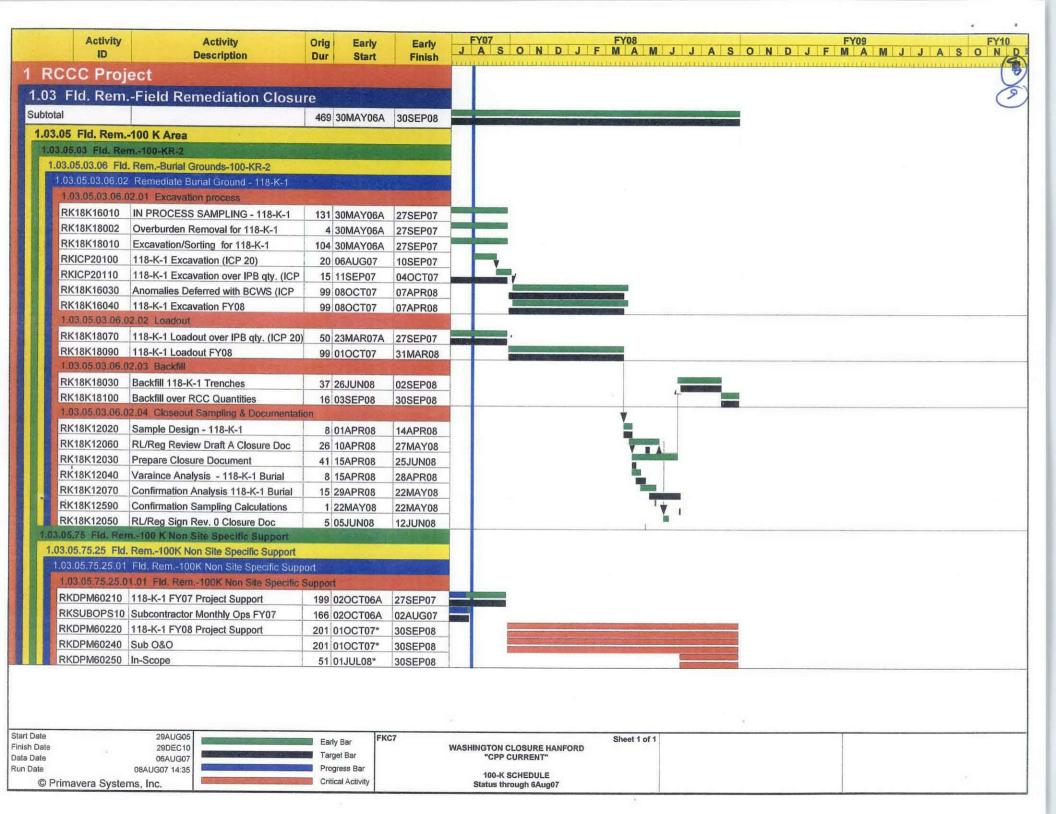
Field Remediation Sample Design and Cleanup Verification for the July 2007 UMM

100-F (co		3/13/2008	3/20/2008					
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-57 RL/Reg Sign Rev. 0 Closure Doc for 100-F-44	4/3/2008	4/10/2008					
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-51	4/9/2008	4/16/2008					
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-52	4/16/2008	4/23/2008					
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-53	4/23/2008	4/30/2008					
100-H	ht/heg sight nev. o closure bot for 100-1-55	4/20/2000	4/00/2000					
100-11	RL/Reg Approv/Sign Rev.0 Closure Doc 100-H-28:10	4/30/2007	8/23/2007					
	RL/Reg Review Draft A Closure Doc for 128-H-2	6/4/2007	8/14/2007					
	RL/Reg Review Draft A Closure Doc for 128-H-3	6/4/2007	8/14/2007					
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	RL/Reg Sign Rev. 0 Closure Doc for 128-H-3	9/6/2007	9/13/2007					
	RL/Regulator Review Draft A WI for 116-H-9	5/5/2008	6/2/2008					
	RL/Regulator Review Draft A WHor 170-1-9	6/2/2008	6/26/2008					
		6/11/2008	6/18/2008					
	RL/Regulator Sign Rev. 0 WI for 116-H-9 RL/Regulator Sign Rev. 0 WI for 600-152	7/9/2008	7/16/2008					
100 N	RL/Regulator Sign Nev. 0 Willor 600-152	779/2000	7710/2000					
100-N	ESD - EPA review/comment on draft B	7/19/2007	7/25/2007					
	RL/Reg Signature & Issue Rev 0 Closeout Document	7/23/2007	7/26/2007					
	RL/Regulator Review Draft A WI for 100-N-28	11/27/2007	12/26/2007					
	RL/Regulator Review Draft A WI for 100-N-53	12/4/2007	1/3/2008					
	RL/Regulator Review Draft A WI for 100-N-55	12/11/2007	1/10/2008					
	RL/Regulator Review Draft A WI for 100-N-65	12/18/2007	1/17/2008					
	RL/Regulator Review Draft A WI for 100-N-66	12/27/2007	1/24/2008					
	RL/Regulator Review Draft A WI for 100-N-68	1/7/2008	1/31/2008					
	RL/Regulator Sign Rev. 0 WI for 100-N-28	1/8/2008	1/15/2008					
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	RL/Regulator Sign Rev. 0 WI for 100-N-53	1/15/2008	1/22/2008					
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	RL/Regulator Review Draft A WI for 120-N-4	1/21/2008	2/14/2008					
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	RL/Reg Sign Rev. 0 Closure Doc for 100-F-45	2/21/2008	2/28/2008					
	RL/Regulator Sign Rev. 0 WI 100-N-62 Pipes	2/27/2008	3/5/2008					
	RL/Regulator Sign Rev. 0 WI for 120-N-4	2/27/2008	3/5/2008					
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100-IU-2 & 6								
	RL/Reg Review Draft A WI for -600-149	1/7/2008	1/31/2008					
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	RL/Reg Review Draft A Closure Doc for 600-276	7/15/2008	8/27/2008					
	RL/Reg Review Draft A Closure Doc for 600-1	7/21/2008	9/3/2008					





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300 Area D4 Status August 9, 2007 100/300 Area Combined Unit Manager Meeting

Ongoing Hazardous Material Removal

- 321
- 324
- 327
- 328
- 337
- 384

Ready for Demolition:

- 3718E
- 306W
- 306E BA
- 3706 BA
- 3705 BA

Demolition Activities:

- 3720 load out started
- 3745 demolition completed, load out ongoing
- 3746, 3746A demolition and load out completed

60-Day Project Look Ahead

- Begin demolition of 328/328A/328 BA
- Demolish boiler annexes (306E, 3706, 3705)
- Begin hazardous material removal at 308
- Complete hazardous material removal at 337 and 337B
- Pursue ARAR waiver for asbestos removal at 384



100 Area D4 Status August 9, 2007 100/300 Area Combined Unit Manager Meeting

Ongoing Demolition Activities

- 183N Load-out ongoing.
- 163N Segregation of debris for size reduction and load-out ongoing.
- 1312N LERF Liner and concrete loadout complete; backfill operations ongoing.
- 109N Asbestos removal ongoing.
- 184N/NA Hazardous material removal ongoing.
- 105NB Demolition preparation activities complete.

60-Day Project Look Ahead

- 182N Hazardous waste removal.
- Remaining 1802N Pipe to be shipped to ERDF.
- MO-829 (Ecology approval to demolish trailer at 100-N provided for inclusion in Administrative Record).
- MO-050/MO-358 Asbestos load-out.
- MO-055/MO-911 Asbestos load-out.
- 1705N/NA and 1706-N/NA Asbestos load-out.
- 1312N LERF inlet piping shipment to ERDF.
- Recertification of PAS-1 shipping casks in 107N.
- 105B Reactor Roof Replacement start.
- 105NB Demolition and load-out.
- MO-766/MO-950 Demolition and load-out.



Saueressig, Daniel G

From: Bond, Rick (ECY) [FBON461@ECY.WA.GOV]

Sent: Tuesday, August 07, 2007 2:28 PM

To: Saueressig, Daniel G

Cc: Guercia, Rudolph F; Ison, Eric G; Yasek, Donna M

Subject: RE: MO-829 DISPOSAL

Dan,

Ecology concurs with the approach as described below. Rick Bond

Nuclear Waste Program Specialist Facility Transition Project Manager Washington State Department of Ecology 3100 Port of Benton Richland, WA 99354 (509) 372-7885

E-mail: FBON461@ECY.WA.GOV

----Original Message----

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]

Sent: Tuesday, August 07, 2007 11:27 AM

To: Bond, Rick (ECY)

Cc: Guercia, Rudolph F; Ison, Eric G; Yasek, Donna M

Subject: FW: MO-829 DISPOSAL

Rick, operations would like to move M0-829 (currently at 100-D area) to 100-N and demolish it here before disposing of the trailer at ERDF. Apparently ERDF is performing some compaction testing and needs feedstock. This trailer would help provide this material. The only change is that the trailer will be demolished at 100-N instead of ERDF, so I'm requesting the 100-N area be considered part of the CERCLA onsite area for the purpose of managing this waste prior to disposal.

Let me know if you concur, give me a call if you have any questions.

Thanks for all your help.

Dan Saueressig 100 Area D4 Environmental 373-5473 (office) 521-5326 (cell)

----Original Message----

From: Mewes, Bradley S

Sent: Tuesday, August 07, 2007 10:20 AM

To: Saueressig, Daniel G Subject: RE: MO-829 DISPOSAL

Dan

I need approval to haul MO-829 from 100 D Area to 100N instead of ERDF as recently planned.

D4 and ERDF Management met today to discuss a compaction test ERDF plans to perform soon.

The compaction test needs feed stock from building demolition, we would like approval to move MO-829 to 100N to perform demolition and supply the feed stock mentioned instead of hauling in tact to ERDF as recently planned.

----Original Message----From: Saueressig, Daniel G

Sent: Tuesday, August 07, 2007 10:15 AM

To: Mewes, Bradley S

Subject: FW: MO-829 DISPOSAL

Dan Saueressig 100 Area D4 Environmental 373-5473 (office) 521-5326 (cell)

----Original Message----

From: Bond, Rick (ECY) [mailto:FBON461@ECY.WA.GOV]

Sent: Monday, April 23, 2007 12:55 PM

To: Saueressig, Daniel G Subject: FW: MO-829 DISPOSAL

Dan,

Looks like you're good to go. It's approved by Ecology since EPA (Dave Einan) says it's fine. Rick Bond

Facility Transition Project Manager Washington State Department of Ecology 3100 Port of Benton Richland, WA99354 (509) 372-7885 e-mail: FBON461@ECY.WA.GOV

----Original Message----

From: Einan.David@epamail.epa.gov [mailto:Einan.David@epamail.epa.gov]

Sent: Monday, April 23, 2007 9:52 AM

To: Bond, Rick (ECY)

Subject: RE: MO-829 DISPOSAL

Rick--

I talked with the ERDF folks and I am OK with the proposal below.

Dave Einan

One hydrogen atom remarked, "I lost my electron." The second atom asked, "Are you sure?" The first replied, "Yes. I'm positive."

"Bond, Rick \(ECY\)" <FBON461@ECY.WA. GOV>

David Einan/R10/USEPA/US@EPA

CC

To

04/17/2007 12:09

PM

Subject

RE: MO-829 DISPOSAL

Dave.

Have you had a chance to look at this ERDF request. I'm sorry to put the pressure on you,

but I'm deferring 100% to you. You say Ok and I say go.

Thanks, Rick

----Original Message----

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]

Sent: Monday, April 02, 2007 10:16 AM To: Bond, Rick (ECY); Einan, David R

Cc: Ayres, Jeff (ECY); Nielson, Robert R; Yasek, Donna M;

Borden, Gregory J; Mewes, Bradley D

Subject: MO-829 DISPOSAL

Rick/Dave, I've talked with both of you related to this trailer a month or so ago, but haven't had a chance to formally ask the question.

I'd like to discuss transport and disposal of a mobile office located at the 100-DR area to ERDF for disposal and request your approval for the proposed path forward. This trailer (MO-829) was used to support D&D of the reactor ancillary facilities and although not specifically discussed in the Action Memorandum, EE/CA or RAWP for 100-DR, there is potential for contamination related to this removal action due to biological vectors (mud daubers or rodents). Our radiological control organization has determined that to be able to survey and release the trailer from a radiological perspective would be very difficult, requiring accessing any areas (under flashing, places where caulking is missing providing access to mud dauber nests, etc.) that could allow animal or insect intrusion. D4 has encountered other trailers that were thought to be clean until demolition allowed access to previously inaccessible areas that were contaminated. The EE/CA and the RAWP both discuss (Introduction) disposal of contaminated waste generated as a result of this removal action, and this mobile office could be considered contaminated waste eligible for ERDF disposal. WCH believes that disposal at ERDF is appropriate for this mobile office. The mobile office is currently sitting in 2 pieces near the 105-DR and is not connected to any utilities or foundation. Hazardous material removal will take place before the trailer is taken to ERDF and small amounts of hazardous materials may be temporarily stored in the 100N area pending shipment to either ERDF or the recycling center. Since the majority of our work force resides at 100N, I'm requesting that any hazardous material removed be managed at the 100N area and considered part of the CERCLA onsite area for the purposes of managing this waste prior to disposal. The only hazardous materials that may potentially be encountered are oils/greases, mercury switches, fluorescent lights, light ballasts, bio-hazards and potentially radiological contamination.

Current plans are to trailer the mobile office over to ERDF intact and demolish it in ERDF. WCH believes demolishing the office at ERDF is safer than demolishing and loading out the mobile office at 100-DR. 100-DR no longer has a functioning air monitoring network, while ERDF maintains various air monitors that would provide assurance that any potential spread of contamination would be monitored.

Rick, I discussed this earlier with you and you had no concerns, but you wanted to make sure Mr. Einan was aware and didn't have any problems with this proposal.

Can you both let me know if this acceptable to you? Thanks and please call if you have any questions.

Dan Saueressig 100 Area D4 Environmental 373-5473 (office) 521-5326 (cell)



WCH Mission Completion Risk Assessment and Orphan Sites Status August 9, 2007

Risk Assessment:

100/300 Area RCBRA Component

• Risk assessment Draft A review extended through 9/7/07. Additional sampling proposed for low-water season (see below).

Inter-Areas

 Sampling activities are in progress – avian sampling (king-birds/swallows), vegetation cover surveys, and collection of remaining sculpin samples. Plans to replace sediment Cr+6 samples for the 100/300 Area assessment, and collect additional fish for PCB analysis for both Components. Data being transmitted to N&C for inclusion in Inter-Areas risk assessment.

Columbia River Component

• WCH received a letter from DOE requesting an estimate for next steps for the Columbia River Component.

Orphan Sites Evaluations:

- 100-D Area summary report comment disposition briefing to be scheduled with Ecology.
- IU2/IU6 RL and EPA briefings for evaluation results anticipated fall 2007.
- 100-H Area field investigation initiated 8/7.
- 100-K Area historical review anticipated to be complete in September.